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 <210> 1
 <211> 733
 <212> DNA
 <213> Homo sapiens

<400> 1
 gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60
 aattcgaggg tgcaccgtca gtcttcctct tcccccaaa acccaaggac accctcatga 120
 tctcccgga tctgaggtc acatgcgtgg tggaggacgt aagccacgaa gaccctgagg 180
 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg accaggact 300
 ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg 360

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agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctgggc aaaggcttct 480
atccaaagca catcggcgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatggtg cgacggccgc 720
gactctagag gat 733

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<210> 2
<211> 5
<212> PRT
<213> Homo sapiens

```

```

<220>
<221> Site
<222> (3)
<223> Xaa equals any of the twenty naturally occurring amino acids

```

```

<400> 2
Trp Ser Xaa Trp Ser
  1 5

```

```

<210> 3
<211> 86
<212> DNA
<213> Artificial Sequence

```

```

<220>
<221> Primer_Bind
<223> Synthetic sequence with 4 tandem copies of the GAS binding site
      found in the IRF1 promoter (Rothman et al., Immunity 1:457-468
      (1994)), 18 nucleotides complementary to the SV40 early promoter,
      and a Xho I restriction site.

```

```

<400> 3
gcgccctcgag atttccccga aatctagatt tccccgaaat gatttccccg aatgatttc 60
cccgaatat ctgccatctc aattag 86

```

```

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

```

```

<220>
<221> Primer_Bind
<223> Synthetic sequence complementary to the SV40 promoter; includes a
      Hind III restriction site.

```

```

<400> 4
gcggcaagct ttttgaaag cctaggc 27

```

```

<210> 5
<211> 271
<212> DNA
<213> Artificial Sequence

```

```

<220>

```

<221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5
 ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
 gccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 6
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Xho I restriction site.

<400> 6
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Hind III restriction site.

<400> 7
 gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
 <211> 12
 <212> DNA
 <213> Homo sapiens

<400> 8
 ggggactttc cc 12

<210> 9
 <211> 73
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer with 4 tandem copies of the NFkB binding site (GGGGACTTCCC), 18 nucleotides complementary to the 5' end of the

SV40 early promoter sequence, and a XhoI restriction site.

```

<400> 9
gcggcctcga ggggactttc ccgggggactt tccggggact ttccgggact ttccatcctg      60
ccatctcaat tag                                     73
/

<210> 10
<211> 256
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NFkB
      binding sites.

<400> 10
ctcgagggga ctttcccgga gactttccgg ggactttccg ggactttcca tctgccatct      60
caattagtca gcaaccatag tcccgcacct aactccgccc atcccgcgc taactccgcc      120
cagttccgcc cattctccgc cccatggctg actaatTTTT tttatttatg cagaggccga      180
ggcgcctcgc gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg      240
cttttgcaaa aagctt                                     256

<210> 11
<211> 2703
<212> DNA
<213> Homo sapiens

<400> 11
ggcacgagat ttcctacagg tgaaacgcca tcattaggat tcaactgtaac gttagtgtca      60
ttaaactcac tagcattttt attaatggcc gttatctaca ctaagctata ctgcaacttg      120
gaaaaagagg acctctcaga aaactcacia tctagcatga ttaagcagt cgcttggtca      180
atcttcacca attgcatctt tttctgccct gtggcgTTTT tttcatttgc accattgatc      240
actgcaatct ctatcagccc cgaaataatg aagtctgtta ctctgatatt tttccattg      300
cctgcttgcc tgaatccagt cctgtatgtt ttcttcaacc caaagtttaa agaagactgg      360
aagttactga agcgacgtgt taccaagaaa agtggatcag tttcagtttc catcagtagc      420
caaggtgggt gtctggaaca ggatttctac tacgactgtg gcattgtact acatttgag      480
ggcaacctga ctgtttgcga ctgctgcgaa tcgtttcttt taacaaagcc agtatcatgc      540
aaacacttga taaaatcaca cagctgtcct gcattggcag tgcttcttg ccaaagacct      600
gagggctact ggtccgactg tggcacacag tcggcccact ctgattatgc agatgaagaa      660
gattcctttg tctcagacag ttctgaccag gtgcaggcct gtggacgagc ctgcttctac      720
cagagtagag gattcccttt ggtgcgctat gcttacaatc taccaagagt taaagactga      780
actactgtgt gtgtaaccgt ttcccccgtc aaccaaatac agtgtttata gagtgaacc      840
tattctcatc tttcatcttg gaagcacttc tgtaatcact gcctgggtgc acttagaaga      900
aggagaggtg gcagtttatt tctcaaacca gtcattttca aagaacaggt gcctaaatta      960
taaattgggtg aaaaatgcaa tgtccaagca atgtatgac tgtttgaaac aaatatatga      1020
cttgaaaagg atcttaggtg tagtagagca atataatgtt agttttttct gatccataag      1080
aagcaaatct atacctattt gtgtattaag cacaagataa agaacagctg ttaatatttt      1140
ttaaaaatct attttaaaat gtgattttct ataactgaag aaaatatctt gctaatttta      1200
cctaattgtt cctccttaat ctccaggaca ctactgcag ggccaaaaaa gggactgtcc      1260
cagctagaac tgtgagagta tacataggca ttactttatt atgttttcac ttgccatcct      1320
tgacataaga gaactataaa ttttgtttaa gcaatttata aatctaaaac ctgaagatgt      1380
ttttaaaaca atattaacag ctgttaggtt aaaaaaatac ctggacattt gttttcagtc      1440
attatacatt gctttggtcc aatcagtaat tttttcttaa gtgttttggtg attacactac      1500
tagaaaaaaa gtaaaaggct aattgctgtg tgggttttagt cgatttggct aaactactaa      1560
ctaattgtgg ggtttaatat tatctgaggg atttggtggc ttcattgtaat gttctcatta      1620
atgaatactt cctaatatcg ttggctctac taatattttc caatttgctg ggatgtcacc      1680

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tagcaatagc	ttggattata	tagaaaagtaa	actgtgggtca	atacttgcat	ttaattagac	1740
gaaacgggga	gtaattatga	cacgaagtac	ttatgtttat	ttcttagtga	gctggattat	1800
cttgaacctg	tgctattaaa	tggaatttc	catacatctt	ccccatacta	ttttttataa	1860
aagagcctat	tcaatagctc	agaggttgaa	ctctgggttaa	acaagataat	atgttattaa	1920
taaaaataga	agaagaaaaga	ataaagctta	gtcctgtgtc	tttaaaaatt	aaaaatttta	1980
cttgattccc	atctatgggc	tttagacctt	ttactgggtg	gagtctttaa	gttatatttg	2040
ttcaatatgt	tttttgaaca	gtgtgctaaa	tcaatagcaa	acccactgcc	atattagtta	2100
ttctgaatat	actaaaaaaaa	tccagctaga	ttgcagttta	ataattaaac	tgtacatact	2160
gtgcatataa	tgaattttta	tcttatgtaa	attattttta	gaacacaagt	tgggaaatgt	2220
ggcttctgtt	catttcgttt	aattaaagct	acctcctaaa	ctatagtggc	tgccagtagc	2280
agactgttaa	attgtggttt	atatactttt	tgcattgtaa	atagtccttg	ttgtacattg	2340
tcagtgtaat	aaaaacagaa	tctttgtata	tcaaaatcat	gtagtttgta	taaaatgtgg	2400
gaaggattta	tttacagtgt	gttgtaattt	tgtaaaggcca	actattttaca	gtttttaaaa	2460
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cctaattaaa	aggttttttc	caaaattcag	gttattgaaa	atttttcatt	ttattcattt	2580
aaaaactaga	ataacagata	tataaaagtg	ttaatccttg	tgctatatgg	tatgaaatac	2640
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aaa						2703

<210> 12
 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 12						
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acctcagctt	gtggctcttg	gccccagcc	ccaccaaccc	acctgttcat	ttattcaaca	120
gacaatgaca	gctgatattt	attggacatt	tgcaccatgc	caagcattcg	gcttggatta	180
tcccatttgt	ttctcacagc	cggtatttat	tgtctgtctc	tctgtgccag	gtgctgtgct	240
ctgggcaggg	gcactgcatg	ggctgcctgc	cctgggtggag	cttgtggtct	gatgggtgag	300
gctgacccaa	gccacccca	ttgccaacag	ggccagggca	agagtacaca	caggggcctc	360
ataccatatg	tctaaatatt	taaaaagtta	tcaatcaagc	taacaactgt	taaataaaat	420
atgttctatt	ctcctacttt	gaaaaaaaaa	aaaaaaaaaa			459

<210> 13
 <211> 760
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (300)..(300)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (425)..(425)
 <223> n equals a,t,g, or c

<400> 13						
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acacaaaacc	ccgtaaaatc	acaaaagaaa	tccaacacca	aaggcgcaga	agccggctgg	120

ccgtgggtggg	ggcagcgtag	gcgtasatcc	ctctcctctc	aattagcctg	ttgactcttg	180
ttattatcat	gatattcaca	aaacgccgca	tgttttaaaa	gtcatagatg	tcattcttctc	240
tctgccccca	gggaggaaaag	ccaccttctc	ttgccccttg	gcccctttgt	caggggccaan	300
gggtctgccc	ggtgggggtg	ccaacaggcc	tggccctttc	ctcccctgca	tccagccatg	360
ggggcctctg	cgattgccgg	aaggttgcat	ggctgggtccc	agggccagca	caggccccgag	420
gccngtctgc	ctggttttat	ttttatttta	ctttattttc	tgttttatga	gtgtgtgtcc	480
gcccaccccc	acccccttca	gtgttaagtg	gggagccctg	ggggagtctc	tcctgcctcc	540
cagcctctcc	caagacctcc	cccctcgtea	ccagccacc	ctctggacca	ggcagagggc	600
ggaccgggtg	ggcagggggc	tgaggggtgg	tcggggccagc	ccaccagcca	atggaccctt	660
cctcaggccg	ccagtgtcgc	cctgcccctt	tttaaaaaca	aatgccctcg	tttgtaaacc	720
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<210> 14
 <211> 1445
 <212> DNA
 <213> Homo sapiens

<400> 14	
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tcctgaagct	gttttaggaat attcatgata tacccttaac tgttctagag aacaaaatgc 120
gtctgtgtctc	cttcacaaaa gtccctatga atttgtttt caatgtgatc ctctcttaagt 180
tctataactt	tttgtttttca ttaatttttag gaaaatcctg ccttgcttcg ttgggcctat 240
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gctctgtgtg	gatttggggc cctcatcttc atttattata ttatcaaaac tgagagggta 360
agtattcaga	ccagatgttt agtatttgag tgataggttc actttctagg gaccagctgc 420
agtcctttct	cttgaagatt gccaccagtg cccctcccac cttggggctg tcctctgcct 480
tcccttctctc	tcttcttttta tctttattcc tttccagcag gaggtaaaac agaaagt ttt 540
cagtcacctt	tgtctat tttt tgtagttca ttgtttttt aaaaagatga tgtttattgg 600
gttaagtatt	agcagaatac ataaatcatt tagtacgttt cctgtttgcg tgaattctat 660
ttatgtttgg	cacattttgc aaattaatgt taaaacctat taatactcta cgggacagag 720
aagcacaagc	tgccctgtgtg gggaatagct gccgtcagca gcctgggtat atgattggag 780
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ccatctgcat	tcccattaga gttcgtgtat tttgattatc tgggtgaatga tctacttaac 960
agaaaggtag	tccacatttt ccagaaagt gtttgcattt tgctttcaat atatggtttt 1020
atggggataat	atattttctaa tgactaaaat gtgagtaaga tgtttttgaa taggagcatt 1080
ttcttactgt	gtcttttagtt cctcggatta ctgtttcttc gcacactccc tgggctttag 1140
acagtgggat	tgcaattagg tttggagtgt ttcattctgt ttgtcagttg tacgggtggt 1200
tgtgccaaaa	tgcagttttt cttacctttt ttattttatt atttttatct aatatagcca 1260
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aaacttatcc	aggaaggaaa attggatcga acatttcacc tctcatatta agtctggcaa 1380
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aaaaa	

<210> 15
 <211> 1333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (411)..(411)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1264)..(1264)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1319)..(1319)

<223> n equals a,t,g, or c

<400> 15

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cctggaacac ttcaacaacc agtatccagc cgcagagggtg gtgaactttg gcacctgggt 60
cctcttcagc ttccccatat ccctcatcat gctgggtggtc agctgggttct ggatgcaactg 120
gctgttcctg ggctgcaatt ttaaagagac ctgctctctg agcaagaaga agaagaccaa 180
aagggaacag ttgtcagaga agagsmtcca agaagaatat gaaaaactgg gagacattag 240
ctaccacagaa atgggtgactg gwtttttctt catcctgatg acgtactgt ggtttamccg 300
ggagcctggc tttgtccctg gctgggattc tttctttgaa aagaaaggct accgtactga 360
tgccacagtc tctgtcttcc ttggcttccct cctcttccctc attccagcga nagaagccct 420
gctttgggaa aaagaatgat ggagagaacc aggagcactc actkgggacc gagcccatca 480
tcacgtggaa ggacttccag aagaccatgc cctgggagat tgtcattctg gttgggggag 540
gctatgctct ggcttctggg agcaagagct ctggcctctc tacatggatt gggaaccaga 600
tgttgtccct gagcagcctc ccaccgtggg ctgtcacccct gctggcatgc atcctcgtgt 660
ccattgtcac tgagtttgtg agcaaccacg caaccacac catcttccctg cccatcctgt 720
gcagcctgtc tgaacgctg cacattaacc cctctacac cctgatccca gtcaccatgt 780
gcatctcctt tgcagtgatg ctgcctgtgg gcaatccccc taatgccatc gtcttcagct 840
atgggcactg ccagatcaaaa gatatgggtg aagctggcct gggagtcaac gttattggac 900
tggtgatagt aatggtggcc atcaacacct ggggagttag cctcttccac ctggacactt 960
acccagcatg ggcgagggtc agcaacatca ctgatcaagc ctaacgcaa gtgtacaaac 1020
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actaggacca ccaggagcac acaaccccag acccacgccg gagggcatcc ctccaccaga 1140
agattccgcc acctcaagtg aactgcagga atcctccaac aaccacaaac acatgcttcg 1200
ctgttagtgt cttcttccctg ccctcagcac cacagctcaa gaaaacctaa agtttcaata 1260
caanccatag gtcacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaa 1333
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<210> 16

<211> 1382

<212> DNA

<213> Homo sapiens

<400> 16

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acgagtgcgg gcagcagcag ccccggcacg mgggagagag acaaagcatg gaggacacaa 60
caatgggagg aaaggcggac tctcaggaac tcattcttc acgtggttta tggatgattgc 120
attgctgggc gtctggacat ctgtacctgt cgtttggttt gatcttggtt ttgatgagca 180
gattactagc caaagcaaaag gacttccgtt ataacttatc agagggtgctt caaggaaaac 240
taggaatcta tgatgctgat ggtgatggag attttgatgt ggatgatgcc aaagttttat 300
taggcctgac caaagatggc agtaatgaaa atattgattc tcttgaggaa gtccttaata 360
tttttagcaga ggaaagtcca gattgggttt atgggttccct ctcatcttct tatgatataa 420
tgactccttt tgaatgcta gaagaagaag aagaagaag cgaaaccgca gatggtgttg 480
atggtacgtc acagaatgaa ggggttcagg gaaagacttg tgtcatattg gatttacata 540
accagtaacc ttgattcagg gactgaagtc attggctaata gaacacctga agcagcctcc 600
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taccgtgcaa gtcaaccatg tgatcttgcc cagtacagct actagcctag tcccttctc 720
gctcagctcc cccaacttct attgaagaaa atggtactcc tcattcttgt agtcagctac 780
aaagtacact gaaaatgatg ttcttggttg tataattggt ttctgtatcg tttgttttca 840
actcatgtat tcaactgaact aaatttgac acttaacagc aaattgtgtt gtggttaacc 900
cttgatgctt gtctttctaa cacactatta attatgatga ttctaattga tttcattata 960
aaaatatattc tggcatgatt ttttaagttaa atgcttctct gttctttaac atgactgatg 1020
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cagatagggt catacaaaat taaaagtaaa attctgtggt aatggtgctt taaaataat 1140
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ttaaaaataa	ctccatgttt	ttgccttaga	gtaagttaac	ttactgtttt	cagatagtag	1200
catgacatat	ttctgtctgt	gaaagcaaaa	tttattttta	attttatttc	caaataataca	1260
tccagagaaa	gtaatttgta	ttttttttta	agtaggcata	ttacacaaga	gggaacatgt	1320
gaatatgtat	cttaatgttg	tacataggga	aattattcat	cctaaaaaaa	aaaaaaaaaa	1380
aa						1382

<210> 17
 <211> 1734
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1714)..(1714)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1719)..(1719)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1723)..(1723)
 <223> n equals a,t,g, or c

<400> 17						
gcgggaggttc	ctccttgctc	tcgcccctac	tctttctggt	gttagatcga	gcwaccctct	60
aaaagcagtt	tagagtggta	aaaaaaaaaa	aaaacacacc	aaacgctcgc	agccacaaaa	120
gggatgaaa	ttcttctgga	catcctcctg	cttctcccgt	tactgatcgt	ctgctcccta	180
gagtccttcg	tgaagctttt	tattcctaag	aggagaaaat	cagtcaccgg	cgaaatcgtg	240
ctgattacag	gagctgggca	tggaattggg	agætgactg	cctatgaatt	tgctaaactt	300
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<210> 18
 <211> 751
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

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 ctgaggggag gaaagaatgg gagggggtat tcttgcttag tggatggaaa ggaaacacac 240
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 atcatacagg ctccctcatct acaaagttcc agtagcagtg acgcctacac ggaagacttg 660
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<210> 19
 <211> 1313
 <212> DNA
 <213> Homo sapiens

<400> 19
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 catattcaca gcgtcgtttt cagtgtgaaa ttctactgtg ttaaagtatt gtacagtcac 780
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<210> 20
 <211> 752
 <212> DNA

<213> Homo sapiens

<400> 20

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caaaccatcg ctatattcaa gataatgaac ctatctatca tactcccaaa ttccctctkg      360
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acaattatct tgagattcat ttatgttawt gatgtatca atagttcatc ccttttattg      600
gtaagtaaca tttttttgta taggtatacc atgatttgtt gatgaacaaa tttacctgtt      660
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<210> 21

<211> 879

<212> DNA

<213> Homo sapiens

<400> 21

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<210> 22

<211> 2761

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1006)..(1006)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1376)..(1376)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2211)..(2211)

<223> n equals a,t,g, or c

<400> 22

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gaatatgaga	atatcatcca	agattttaaat	accaattacc	aaaattttaca	gctatcaaatt	180
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c						2761

<210> 23

<211> 2849

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

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<210> 24
 <211> 755
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

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<222> (733)..(734)

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<210> 25

<211> 4129

<212> DNA

<213> Homo sapiens

<400> 25

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<210> 28

<211> 2005

<212> DNA

<213> Homo sapiens

<400> 28

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<211> 1472

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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <222> (108)..(108)
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 <212> DNA
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aaaaaaaaaa	aaaaaa					1756

<210> 32
 <211> 1675
 <212> DNA
 <213> Homo sapiens

<400> 32						
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caaacaacaa	aaaactatca	aatgaaaaga	aaatgtactc	aacctaacct	atagtttagca	180
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aaatggggtc	agattccatc	agattccacc	tctgtcaggt	ggactcttgt	ctgccttcca	600
tgatgagatt	ttttttctcc	ttcccctttc	tttaagagag	gctgacagat	ctagggtgtca	660
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<210> 33
 <211> 910
 <212> DNA
 <213> Homo sapiens

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atcggggccc	tgggaagcgc	ctgtctatcc	cgggggcagg	acctgagcgc	ccctgaccct	180
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caccctaggg	ttaccctcc	tgccctccctt	cccctgcctg	ctgctggggg	agatgctgtc	780
catgtttcta	ggggatttca	tttgctttct	cgttgaaacc	tgttggtta	aaagtttttc	840
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gatagtga						910

<210> 34
 <211> 821
 <212> DNA
 <213> Homo sapiens

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ctagtaataa	ttggtttgcg	taatacaaa	ttctactggg	tagtgatgtt	gtagaagttc	180
atatagaatc	agctgagctt	tcagaaatgg	tgaaaagggtg	gtaatagtca	taacttagat	240

tgtaattttt	ttcccatag	cttttaaaaa	atattcatga	ggttcttttt	ttatttcaat	300
agtttttggg	gaacaggtgg	tttttggtta	catgataagt	tcttcagtg	tgatttctga	360
gatttttggtg	cacctgtcat	gtgagcagta	tgaactctac	tttatgtgta	gtcttatccc	420
tcatgtgtat	gaactccacc	ttatgtgtag	tcttatccct	caccactcc	tgcccttccc	480
cacaagtccc	caaagtccat	tatagatct	ttatgccttt	acatcttcac	agtttagctc	540
tcacacaact	tattataatt	tataagtaag	ccagcattgg	atatagttgt	attccattat	600
taattttaaga	aaccttatgc	aagtaattat	tagtcatcat	cccaaaaaaa	agggagaaca	660
gggttagatt	cagaatactt	tgataagagc	taaatactat	catgagtgt	gtcagttgt	720
agtaactttc	cattggtatt	ctatgtcttt	taggcttaca	gatacttttt	acactcttac	780
aaaatgtgca	caagaagaag	ctgcagctca	gagctcgtgc	c		821

<210> 35
 <211> 981
 <212> DNA
 <213> Homo sapiens

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cccatgggca	actgccaggc	agggcacaac	ctgcacctgt	gtctggccca	ccaccacct	180
ctggctctgtg	ccactttgat	cctgctgtct	cttggcctct	ctggcctggg	ccttggcgc	240
ttcctcctca	cccacaggac	tggcctgcgc	agccctgaca	tccccagga	ctgggtctct	300
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acctgcctat	attttagtgc	tgttccagga	atcctacct	ccagccagcc	acccatatcc	600
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agtgtctgga	gccatgaagg	ccttggtgctg	accaagctgc	tcacctcgga	ggagctggct	720
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aaaaagcttt	tttgcccaa	a				981

<210> 36
 <211> 1038
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n equals a,t,g, or c

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gcatcataga	aaaaatgctc	ttactgttga	aaacattatt	tgttacattt	tggtcaacta	120
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taaatggcag	ctgacagcat	gaaaataaca	tatctaatat	tttgtgacta	tcttattagg	240
aaaatcagag	aatttcaaaa	ccttgttagt	ttttagggtg	tagtcacatt	ttataaatgt	300
gcggtatatt	tatacatgat	ttgacgtttg	tgwaaatatt	ttccctgga	ttttatttta	360
gatgagatct	acagtgtagg	caaacttata	taatctgtca	actccattag	tgctatagtc	420
agactcatcc	ccatgctaaa	attatagttg	tkaaaatacg	cttttgtaaa	tagttgtgtt	480
aggtcattat	caccaagtct	tcaaggkatt	acattataaa	aaccttggtt	tttattcttg	540
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atataaggat	gtgatgagta	tgactacaaa	acaggaaaaa	ataaacagat	ttcgtttgtg	660

gcttttgcta	aattgttacc	tgacaaaatc	ttagccagtt	cttcattttc	gttttgagat	720
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aaaaaaaaaa	aaactcga					1038

<210> 37
 <211> 843
 <212> DNA
 <213> Homo sapiens

<400> 37						
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ttg						843

<210> 38
 <211> 1061
 <212> DNA
 <213> Homo sapiens

<400> 38						
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a		1061

<210> 39
 <211> 601

<212> DNA
 <213> Homo sapiens

<400> 39
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 gatgaccacc gccttgctctt ttatggtaat cactgttctt tgggttttat tactgcattt 180
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 catgtttttgc atatagtttg tttattgtca ttgccataga gtaaatcatt gtatgaatat 360
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 ctctgtacat tcttgatat gtacctgggt gcacatatgt atgtttttct agagtatata 480
 cagtggcatg ggattgctga attaaaagggt ttgtatatct tatactagaa gataataaaa 540
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 a 601

<210> 40
 <211> 1411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1395)..(1395)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1397)..(1397)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1401)..(1401)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1408)..(1408)
 <223> n equals a,t,g, or c

<400> 40
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<210> 41
 <211> 1554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (695)..(695)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (874)..(874)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1190)..(1190)
 <223> n equals a,t,g, or c

<400> 41						
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<210> 42
 <211> 1276
 <212> DNA
 <213> Homo sapiens

<400> 42
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 tcatccaaga gcagagtcca tgttggggcca ggagacttca gatccatgtc ctggtgctgc 180
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<210> 43
 <211> 2084
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2075)..(2075)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2083)..(2083)
 <223> n equals a,t,g, or c

<400> 43
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 tcttgttgag tatcctgctg tggccccctg tggtttatca tgagctgac cagaggatgt 240
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aaaaaaaaaa	aaaaaaaaaa	actcgagggg	gggcncgggt	acnc		2084

<210> 44

<211> 1765

<212> DNA

<213> Homo sapiens

<400> 44

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cataaaaaaac	gaaattgaag	atgcaagtga	acccttgata	gatcctgtat	atggacatgg	240
cagccaaagt	ttaattaatc	tctgtctgac	gggacatgct	gtttctaata	tatgggattgg	300
tgatagagag	tgtcaggaa	tgaacttct	tggatatacat	gaacaagcag	cagtaggatt	360
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<210> 45
 <211> 2494
 <212> DNA
 <213> Homo sapiens

<400> 45						
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<210> 46
 <211> 1509
 <212> DNA

<213> Homo sapiens

<400> 46

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<210> 47

<211> 885

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (233)..(233)

<223> n equals a,t,g, or c

<400> 47

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<210> 48
 <211> 1261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (481)..(481)
 <223> n equals a,t,g, or c

<400> 48
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 gtcattcctt cccgttccct tcatagaata ctactttttc cttttgtctc ctggccattc 180
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 c 1261

<210> 49
 <211> 790
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (37)..(37)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (55)..(55)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (76)..(76)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (112)..(112)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (120)..(120)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (137)..(137)

<223> n equals a,t,g, or c

<400> 49

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cagtgagcgc	aacgcantta	aatgtgagtt	agctcactca	ttagcaccoc	aggctttaca	180
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aaacagctat	gacctgatt	agccaagct	ctaatacgac	tcactatagg	gaaagctggt	300
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aatgtacagt	tcctttctgaa	gcaagcaaca	tcagcagcag	cagcagcagc	agcacaattc	720
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aaaaaaaaaa						790

<210> 50

<211> 3576

<212> DNA

<213> Homo sapiens

<400> 50

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caataacttat	ggaacttcaa	atctcatgct	tttctcattg	cacttatgat	tactccatta	180
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ccgagatcca	tgcttactac	aaaagtggat	gccaccttgc	caggagccac	ggtagggccg	3420
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<210> 51

<211> 1343

<212> DNA

<213> Homo sapiens

<400> 51

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gcctctgggt	ctgggtgagg	ttatttgcag	gtggagacgg	ggggctgcac	ctgaacattt	180
ctagtgtcac	cctccctctc	cttcatggga	aacagctctc	cagggaaagta	ccttcctgcc	240
aggggaagcc	aaggctgggc	cggccgcctt	acaaggagcc	agggattgc	agccatgggt	300
gccacctttc	atggaagggg	agattttatg	gctttccttg	aacccccagg	ctgtcctggc	360
caagaggaaa	gagggtggta	cttcaggagt	ttgaccttag	ttagataact	aaaagaatac	420
atttcccttc	ccttttcttt	atttcctcaa	taaaaatgta	caaagtatca	cccttctcca	480
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cacctgcatt	gctctccctc	gtgctcccca	aatcaccaca	accaaccaat	accgcaatcc	1260
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ttttgaaaaa	aaaaaaaaaa	aaa				1343

<210> 52
 <211> 712
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (44)..(44)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (56)..(56)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (128)..(128)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (625)..(625)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (692)..(692)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (699)..(699)
 <223> n equals a,t,g, or c

<400> 52						
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caccgcgntg	gcggccgctc	tagaactagt	ggatcccccg	ggctgcagga	ttcggcacga	180
ggtttcctgt	cagtgtctatt	gagattttat	tttattaatg	tctgcactta	gttttacttc	240
ctactttcta	cttttattga	gagttaaacc	tgttgaagtc	tcagttcaa	ttcctcacc	300

tgagcaacct	aatgttttat	gtcttggtct	tcctacattt	ggttattgaa	actgaagttt	360
taggttacca	gatttgatag	aagcacataa	gactacttac	tgcttttagtc	tcaattatta	420
attgagaaat	tatcaattaa	caataaggat	ttctcttatt	tttccccaag	ataagttata	480
tatttaaagt	gtgttttata	gtagaaaggt	tttagaatat	ttgggttgct	acattaattg	540
aaatggcagc	tgaagatgtg	atttccagcc	agggatttat	taaaaaaaaa	aaaaaaaaaac	600
tcgagggggg	gccgtaccca	atcgnctat	agtgagtcgt	atacaatcac	gggcgtcgtt	660
acacgtcggg	ctggaaacct	gcgtaccact	ancgtctgc	acacccttc	gc	712

<210> 53
 <211> 1089
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (353)..(353)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (528)..(528)
 <223> n equals a,t,g, or c

<400> 53						
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tcggtctgcc	ccgtccggtc	tctggggcca	aggctgggtt	tccctcatgt	atggcaagag	120
ctctactcgt	gcggtgcttc	ttctccttgg	catacagctc	acagctcttt	ggcctatagc	180
agctgtggaa	atttatacct	cccgggtgct	ggagctgtgt	aatgggacag	atgctcgggt	240
aaaatgcact	ttctccagct	ttgcccctgt	gggtgatgct	ctaacagtga	cctggaattt	300
tcgtcctcta	gacgggggac	ctgagcagtt	tgtattctac	taccacatag	atnccttcca	360
acctatgagt	gggcggttta	aagaccgggt	gtcttgggat	gggaatcctg	agcggtagca	420
tgcttccatc	cttctctgga	aactgcagtt	cgacgacaat	gggacataca	cctgccagggt	480
gaagaaccca	cctgatgttg	atgggggtgat	aggggacatc	cggctcancg	tcgtgcacac	540
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gatcataata	gtaattgtag	tggtcctctt	ccagcattac	cggaaaaagc	gatgggccga	660
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aaaggtctct	gtttattttg	aagacacaga	ctaacaattt	tagatggtaa	ggttcacaaa	780
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gagacaaaag	tcttctatta	gtcttatgga	tagctcctcc	ttgagtgtat	tttgtgcaaa	960
agattaagaa	gctggactct	actgccatta	aagctgagag	aatcctaagg	ttaaaaaaaaa	1020
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1080
aaaaaaaaaa						1089

<210> 54
 <211> 1139
 <212> DNA
 <213> Homo sapiens

<400> 54						
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gctggaggac	acacctaaac	atgtggaatc	ccaatgccgg	gcagccaggg	ccaaatccat	120
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tgctgcttgg	ttagatcata	tagctaata	attaggcagg	ggagctatct	tttgaagatg	780
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<210> 55
 <211> 1222
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (772)..(772)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (796)..(796)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (823)..(823)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (855)..(855)
 <223> n equals a,t,g, or c

<400> 55						
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tggcccatct	cgaacactca	ggtatgtctg	tactcttagt	tcattctattc	atcattgttt	180
ctacagttcc	ctcatgcttt	aaaaaatata	tggtctttat	aatttatcca	gctttttctt	240
gtcattttta	taagagtatg	tgtcttatac	aactactaca	ttcatcccag	aagtagaagc	300
aaactattat	aatcccatta	tttttattcc	tactattctc	ttttcagaat	ttctttttaga	360
tattccttgg	atagttttat	tcaatcctcc	atggctttca	gcttatctta	tgttctatct	420
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caaatttggc	ccgggcgcgg	tggctcacgc	ttgtaatccc	agcactttgg	gaggccgagg	960
cgggtggatc	acgaggtcag	gagatcgaga	ccatcctggc	taacacgggt	aaaccccgtc	1020
tctactaaaa	atacaaaaaa	aaattagctg	ggcgtgatgg	cgggcgcctg	tagtcccagc	1080

tactcgggag gctgcggcag gagaatggcg tgaacccggg aggcgggagct tgcagtgagc	1140
caagattgcg ccactgcact cccgcctggg ccacagagcg agactccgtc tcaaaaaaaaa	1200
aaaaaaaaaa aaaaaaactc ga	1222

<210> 56
 <211> 367
 <212> DNA
 <213> Homo sapiens

<400> 56	
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gaataataacc acaacactta tggcctgtct tggaggcctt ctggggatta ttggtgtgat	120
atgtcttatac agctgcctct ctccagaaat gaactgtgat ggtggacaca gctatgtgag	180
gaattactta cagaaaccaa ccttgcatt aggtgagctt taccctcctc tgataaatct	240
ctgggaagca ggaaaagaaa aaagtacatc actgaaagta aaagcaactg ttatagggtt	300
accaaacaat atgtcctaaa aaccaccaag gaaacctact ccaaaaatga aaaaaaaaaa	360
aaaaaaa	367

<210> 57
 <211> 875
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (872)..(872)
 <223> n equals a,t,g, or c

<400> 57	
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ggcaggaagc cgtgtctgca gaggtcctc cctgcctcag gtggcccgt tcaaccccag	180
ccgtgcccat ctctgccac cgcctgtcgg tgggggttta aattcgggtt ggcttctgg	240
ggtgcagctc agcaccccc cttatgcaga ctgggagggg gtcgggcagt cccctcagcc	300
acgaggaccc tggatgggtt ctagtctact tgggaccgtg gggcctggct gcgtactgag	360
tgggtgcccc acagtcaagg ccaacggggg ctccccctgc tctgagatgt tgggagaaag	420
gcggcttctg gaaccttctg tgggaccctg aagtggctgt ccagaaaggc gggaggggtg	480
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 <212> DNA
 <213> Homo sapiens

<400> 58	
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 <212> DNA
 <213> Homo sapiens

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aaaaaaaaaa aaaaaaaa 2777
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<210> 60
<211> 710
<212> DNA
<213> Homo sapiens
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<400> 60
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agccaggctg agaaaaacagt tactcacatt gagcagttag tgaccactag gtgggcattt 180
gttcatagct gcatggagaa caagtgccca tatacatctt tctgctgatg cagcctctaa 240
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<210> 61
<211> 1540
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (651)..(651)
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (1124)..(1124)
<223> n equals a,t,g, or c
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<400> 61
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 <211> 1421
 <212> DNA
 <213> Homo sapiens

<400> 62						
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<210> 63
 <211> 1477
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n equals a,t,g, or c

<400> 63						
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<210> 64

<211> 3447

<212> DNA

<213> Homo sapiens

<400> 64

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<210> 65

<211> 2312

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2312)..(2312)

<223> n equals a,t,g, or c

<400> 65

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<210> 66

<211> 3037

<212> DNA

<213> Homo sapiens

<400> 66

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<210> 67
 <211> 767
 <212> DNA
 <213> Homo sapiens

<400> 67						
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<210> 68
 <211> 1256
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1079)..(1079)
 <223> n equals a,t,g, or c

<400> 68						
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<210> 69
 <211> 1057
 <212> DNA
 <213> Homo sapiens

<400> 69						
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<210> 70
 <211> 2683
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2640)..(2640)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2676)..(2676)
 <223> n equals a,t,g, or c

<400> 70

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<210> 71

<211> 2687

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1614)..(1614)

<223> n equals a,t,g, or c

<400> 71

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<213> Homo sapiens

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<213> Homo sapiens

<400> 79

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<211> 766
<212> DNA
<213> Homo sapiens

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<222> (670)..(670)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (713)..(713)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (721)..(721)
<223> n equals a,t,g, or c

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 <222> (756)..(756)
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 <212> DNA
 <213> Homo sapiens

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<211> 2181

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (5)..(5)

<223> n equals a,t,g, or c

<400> 88

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 <213> Homo sapiens

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<210> 90

<211> 3533

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (44)..(44)

<223> n equals a,t,g, or c

<400> 90

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<210> 91

<211> 1434

<212> DNA

<213> Homo sapiens

<400> 91

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<210> 92

<211> 867

<212> DNA

<213> Homo sapiens

<400> 92
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<210> 93
<211> 1558
<212> DNA
<213> Homo sapiens

<400> 93
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<210> 94
<211> 2199
<212> DNA
<213> Homo sapiens

<400> 94
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<210> 95

<211> 1392

<212> DNA

<213> Homo sapiens

<400> 95

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 <211> 717
 <212> DNA
 <213> Homo sapiens

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<210> 97
 <211> 832
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (827)..(829)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (831)..(831)
 <223> n equals a,t,g, or c

<400> 97						
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<210> 98
 <211> 685
 <212> DNA
 <213> Homo sapiens

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 <222> (678)..(679)
 <223> n equals a,t,g, or c

<400> 98						
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aaaaaaaaaa	aaaaaaaana	aaaaa				685

<210> 99
 <211> 921
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (4)..(4)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n equals a,t,g, or c

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 <221> misc_feature
 <222> (15)..(15)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (901)..(901)
 <223> n equals a,t,g, or c

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<210> 102
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 <212> DNA
 <213> Homo sapiens

<400> 102						
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<210> 103
 <211> 1129
 <212> DNA
 <213> Homo sapiens

<400> 103

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 <212> DNA
 <213> Homo sapiens

<400> 104						
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<210> 105
 <211> 1345
 <212> DNA
 <213> Homo sapiens

<400> 105						
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<210> 106

<211> 1347

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (83)..(83)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (334)..(334)

<223> n equals a,t,g, or c

<400> 106

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<210> 107

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (41)..(41)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (49)..(49)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (64)..(64)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (607)..(607)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (621)..(621)

<223> n equals a,t,g, or c

<400> 107

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<210> 108

<211> 669

<212> DNA

<213> Homo sapiens

<400> 108

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<210> 109

<211> 1271

<212> DNA

<213> Homo sapiens

<400> 109

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<210> 110

<211> 802

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (105)..(105)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (730)..(730)

<223> n equals a,t,g, or c

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<221> misc_feature

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<223> n equals a,t,g, or c

<220>

<221> misc_feature

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<223> n equals a,t,g, or c

<220>

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 <223> n equals a,t,g, or c

<400> 110
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 gaaggttatg caccmcmggt tgcgtgatct atcaacatca cccattaag aatacaaagc 240
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 gaatagcgta gatataaggaa ggcaggatgg ttatatggaa taaaaggcgg actgcatctg 360
 tatgtagtga aattgccccca gttcagagtt gaattgtttat tattaagaa aaagtaatg 420
 tacatatggc tggatttttt tgcttgctat tcgtttttgt gtcacttggc atgagatggt 480
 tattttggac tattgtatat aatgtattgt aatatttgaa gcacaaatgt aatacagttt 540
 tattgtgtta ccatttgtgt tccatttgct yctttgtatt gttgcattta gtacaatcag 600
 tgtttaaact tactgtatat ttatgctttc tgtatttacc agctatttta aatgagctgt 660
 aactttctag taaagaattg aaaaagcaaat cctcactaaa ggatacacag gataggataa 720
 agccaagtcn catcaacatt aaaaaatact aaananaaa acacaaaaaa aaaaaanccc 780
 gggggggggc cggaacccat tc 802

<210> 111
 <211> 470
 <212> DNA
 <213> Homo sapiens

<400> 111
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 taataagagt tccacaatca atagaaatct atcttggcag gcacttcctt ttaccacta 180
 gaattttttt ccttgggagt tcacgatccc cagaaactgt gatatgagcc attcaatatt 240
 gatgtactaa aacagtgtc tgcttaaata cagtttttca acatacagtc ttggaagaaa 300
 caaaatccaa aataaattcc aatagtccag taacaggaat aaagacact attgcaaat 360
 aaatcttaca gacttatatg aaagctgttg ttaacagctg ggtactagtt atttgaaaag 420
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<210> 112
 <211> 1020
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n equals a,t,g, or c

<400> 112
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 ttggttcagg gctaagttag agtctgaaaa atgaagcctg taggattcat ggcagtgatc 540
 taattgtgat tcatttact gattgtaggg caagaagagt gactaactc aagacacaag 600
 gcaccttcag cgaggacagc aaaggcgtc tacagagacc agccatatgg cagatactga 660

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tggaacttaa	aactactttg	ttgaaacatc	aacctgggca	gaaaaaaaaa	aaaaaaagac	840
atgtaaaatt	ttgttatttc	cagtctgtat	atgaaaaaat	agggtcatcaa	aaggaaaaaa	900
aataactttg	attaactagt	gttaaacaaa	aaataggttt	actaaatctc	gtgccgaatt	960
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<210> 113
 <211> 1881
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (70)..(70)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (126)..(126)
 <223> n equals a,t,g, or c

<220>
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 <222> (1860)..(1860)
 <223> n equals a,t,g, or c

<400> 113	
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acttaaagga	tgcgagcaaa
aactgcaaga	tatccaagtct
ccagagtgtt	tcggccgacg
gtacagatgt	gtatcccacc
agctgctggg	atgtatctct
aatattggag	gtttcatgtt
atactttggg	aatttgtggc
caatggaata	gttcacactc
atgccagca	tcaagggata
tatctacata	ggaaataaaa
attaaacttt	ggatcaaaga
cctcccaagt	ccaggaccca
gctaaaatta	gctacaattc
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	ccagttcact
	atgtttgtat
	gagcatgctt
	tcaggatctg
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	ttaaccttmg
	cccctttaaa
	ctcacaatgc
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	actgtcttct
	aactgggctt
	caaagcaaa
	gaagaaag
	ttcttacaca
	taaatgtttg
	catcagacag
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	atttctgaca
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	gagccaatca
	gaaatatatt
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	aatctggatg
	ctggactcac
	tttaacaaaat
	actgatccaa
	gccttaatga
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	gaattttggt
	ccataaatgt
	caccatttcta
	aaccattttt
	tctaaaacct
	aattgcaaat
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	ccattttcaa
	aagaaacttg
	ccttttacat
	gttagtgatg
	gtaaactttg
	atcagtgcct
	ttcaaagggg
	agttaacttg
	tggtttggct

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<210> 114
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 114						
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gtagcgccgc	accccgccgt	cgtgacagcc	caggtctccc	ggtgtgcaga	atgcccgctg	240
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tgtgtccagc	tgccctgggc	tgcaagcagg	tccctcctgc	agccctccag	gccaccctta	420
agcagagctg	gaccagcctg	gccaacatgg	tgaaaacca	tctctactaa	aaatacaaaa	480
attagccaag	cgtggtggaa	ctctgtctca	aaaaaaaaaa	aaaaaaaaaa	aaagggcggc	540
c						541

<210> 115
 <211> 762
 <212> DNA
 <213> Homo sapiens

<400> 115						
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<210> 116
 <211> 1103
 <212> DNA
 <213> Homo sapiens

<400> 116						
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agaacagatg	aatttaagtt	tggacatctg	caaagtgggt	ggatctagca	acaataactg	240
taatggactg	tgacaattca	atttattctt	aattttgatg	gttggctatt	tgacttctct	300
aaaaatgaga	aagagctatt	ttaaaatata	aagaattttc	taatcagttt	cagctttgca	360
ggaggtttcc	tgcataaatt	gggaagtaac	actggaaagt	aggaatttgg	ttagtgaagt	420
gggaagactg	tatatattata	atttgcatac	tacttgcaat	tttttgtttt	tcatacttgc	480
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ctgatttcat	accagctcat	gaatggatca	ttacagtctc	tccagaggct	tagaatgatt	660
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aaaactgata	tttttatttc	caaaggaatt	tagacatttg	aaaataattg	acatacat	960
agttttaatt	cgataatttc	ttatatatgg	atgaacaatt	tttgggttta	agctttta	1020
tcctagaaat	tttatacat	aaatctcctg	caatttgtca	ctctggatgt	tactgtttaa	1080
aaaaaaaaa	aaaaaactcg	tag				1103

<210> 117

<211> 1175

<212> DNA

<213> Homo sapiens

<400> 117

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ctgggagggg	agaatggagt	ctgtcagtac	aggtgccgat	atggaaaggc	accaatgccc	360
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tgtgattccc	tggttgacac	tgtgttcaac	accgtgtgga	ccttgggctg	ccgccccttt	660
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<210> 118

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (106)..(106)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (110)..(110)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (422)..(422)

<223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (427)..(427)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (548)..(548)
 <223> n equals a,t,g, or c

<400> 118
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<210> 119
 <211> 1633
 <212> DNA
 <213> Homo sapiens

<400> 119
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<210> 120
 <211> 1026
 <212> DNA
 <213> Homo sapiens

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tgtctataaa ctcaaacga aaattttcag atcatccaat tgtgtattca ttggccggaa    420
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<210> 121
 <211> 1384
 <212> DNA
 <213> Homo sapiens

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gcttcagtct tcaaccattg tcaatcttgt ttttccttat attccatttt actttctgaa    540
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<211> 941
 <212> DNA
 <213> Homo sapiens

<400> 122
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 <211> 1715
 <212> DNA
 <213> Homo sapiens

<400> 123
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 <213> Homo sapiens

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<210> 125
 <211> 1816
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (504)..(504)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1405)..(1405)
 <223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

<400> 126						
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 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 127						
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cgaagttggc	attttgtaag	tgttcgaata	agcaccatgc	cgtgggataa	gaaataaaaag	360
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<210> 128
 <211> 3102
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3096)..(3096)
 <223> n equals a,t,g, or c

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<400> 128
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 <211> 1155
 <212> DNA
 <213> Homo sapiens

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 <211> 1459
 <212> DNA
 <213> Homo sapiens

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cttgctcggt	acatccagca	catggagcaa	gagctgaagg	cacaaggaca	ggagcaggaa	540
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agagagcccc	tcgtgtatga	tcttgccctc	ctgaaagcag	cccctgaacc	ccaacagcct	660
atggagctgt	accagcccag	tgcagagagc	ttgcgcagc	aagaagaacg	caagcggctc	720
taccagaggc	agcaggagcg	ggggggaatc	attgaccttg	aggctgagcg	aaaccgatac	780
ttcatcagcc	ttcagcagcc	tcttgccccg	gcggaaactg	agtcagctgt	agatgtctcc	840
aaaggatccc	aaccacccag	cacccttgca	gcagaactat	ccacctcacc	agcgcgtccaa	900
tccactttgc	cacctcctct	gcctgtggcg	accagcacca	tatgtgagaa	gattccaggg	960
accaggtcaa	atcagcaaaag	gttggggcgaa	accagaaaag	ctatgctaga	tccccccaag	1020

cccagtcgag	gtccctggcg	acagcccgaa	cggaggcacc	cgaagggagg	ggagtgccac	1080
gcccctaaag	gtacccgtga	cacccaggaa	ctgccacctc	ctgagggggc	cctcaaggag	1140
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gctctaaagg	ccggacaccc	ggttcttcct	accctcgctt	gcctcggggc	cagggagcat	1320
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acttggtggg	gggaacaggg	aattggggat	gggagggagg	caataaagat	atttggcctt	1440
caaaaaaaaa	aaaaaaaaa					1459

<210> 131
 <211> 870
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (743)..(743)
 <223> n equals a,t,g, or c

<400> 131						
ggcacgagca	gatattaaat	ctcacagaa	ggtgttcctt	attaatcttt	acaaaattgt	60
catttccccg	gtgaagccaa	tttacattaa	aaataatggt	cagaaaaatgc	tgctgcctgc	120
tttctctcct	cttttaccca	ccccttggtc	tcccagcaat	cttcgccctg	tatgtttatg	180
tggacaattt	ctattgtaac	attctccatt	ccattaaactc	tgctctctcc	tctgaggggg	240
gaaaataaaa	ccctaaatgg	ctctaatagt	tatgtatttt	attttgtctc	agaggtttcc	300
aaacttctgc	tttttagcttc	cttttcaactg	ggacaaaatgg	atgtaagtta	ttttccagtt	360
tcctgaaaaa	taatcagggg	ctattttctt	catctatctc	aggtgcttca	tgagtttcct	420
aagatattaa	ttacgggtttc	catcacattca	gaatcaaggg	actcacggat	atgggtactgt	480
gttcactgct	acacagaggtt	tttctagaaa	aaaaaattct	ttatttttat	cttctatttg	540
tatccaaaacg	atggtaaaac	aaaattcctc	tttagctagg	tactgggatt	tttcttttag	600
gaaatactaa	tagagttaca	aagggttagct	tataggtaga	caaaagactg	gcggcaaac	660
agagcagtgg	gtgaaatggg	tccctgggtg	acatgtcaga	tctttgtacg	taattaaanaa	720
tattgtggca	ggattaatatg	canaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	780
aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	840
aaaaaaaaaaa	aaaaaaaaaa	aaaaaaaactc				870

<210> 132
 <211> 1835
 <212> DNA
 <213> Homo sapiens

<400> 132						
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cagcctcggc	acctgcaggt	ccgtgcgtcc	cgcggctggc	gcccctgact	ctgcccggc	120
caggaggggc	catgatttcc	ctcccggggc	ccctggtgac	caacttgctg	cggtttttgt	180
tcctggggct	gagtgccttc	gcgccccctc	cgcggggcca	gctgcaactg	cacttgcccg	240
ccaaccgggt	gcaggcgggtg	gagggagggg	aagtgggtgct	tccagcgtgg	tacaccttgc	300
acggggaggt	gtcttcaccc	cagccatggg	aggtgccctt	tgtgatgtgg	ttcttcaaac	360
agaaagaaaa	ggaggatcag	gtgttgctct	acatcaatgg	ggtcacaaca	agcaaacctg	420
gagtatcctt	ggtctactcc	atgccctccc	ggaacctgtc	cctgcggctg	gagggctctcc	480
aggagaaaga	ctctggcccc	tacagctgct	ccgtgaatgt	gcaagacaa	caaggcaaat	540
ctaggggcca	cagcatcaaa	accttagaac	tcaatgtact	ggttcctcca	gtcctccat	600
cctgccgtct	ccagggtgtg	ccccatgtgg	gggcaaacgt	gacctgagc	tgccagtctc	660
caaggagtaa	gcccgcgtgtc	caataaccagt	gggatcggca	gtttccatcc	ttccagactt	720
tctttgcacc	agcattagat	gtcatccgtg	ggtctttaag	cctcaccaac	ctttcgtctt	780
ccatggctgg	agtctatgtc	tgcaaggccc	acaatgaggt	gggcactgcc	caatgtaatg	840
tgacgctgga	agtgagcaca	gggcctggag	ctgcagtggg	tgctggagct	gttgtgggta	900

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ggccaagag	ctcagacaca	atctccaaga	atgggaccct	ttcctctgtc	acctccgcac	1080
gagccctccg	gccaccccat	ggccctccca	ggcctggtgc	attgaccccc	acgcccagtc	1140
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gtcatgggaa	agagtcacac	tcttgaccct	tagtactctg	ccccacctc	tctttactgt	1440
gggaaaacca	tctcagtaag	acctaagtgt	ccaggagaca	gaaggagaag	aggaagtgga	1500
tctggaattg	ggaggagcct	ccacccaccc	ctgactcctc	cttatgaagc	cagctgctga	1560
aattagctac	tcaccaagag	tgaggggcag	agacttccag	tactgagtc	tcccaggccc	1620
ccttgatctg	tacccacccc	ctatctaaca	ccacccttgg	ctcccactcc	agtcacctgt	1680
attgatataa	cctgtcaggc	tggcttgggt	aggttttact	ggggcagagg	atagggaatc	1740
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ataatgtttg	tatgaaaaaa	aaaaaaaaaa	aaaaa			1835

<210> 133
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (352)..(352)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (376)..(376)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (378)..(378)
 <223> n equals a,t,g, or c

<400> 133						
ctttctgggt	ttaggggaagt	ggtggacaag	gcaggagaga	accacattca	tcttctcctc	60
ttgtgtttgt	cttctgtcct	tcaataacgt	ccatgaactg	tgaggttagt	gtcttggctg	120
agagataagt	awggctkggc	atkgattcct	ytgkgtwac	ctcaagctgt	tttctagtcc	180
ccaagaacag	caytytcagt	gggtgtggaa	gtgggcggga	catgaagcaa	tggttttaca	240
ttgcattgcc	tggctacags	ttggcatttc	tttctttttt	ctttttcttt	gcgattgc	300
cattggtgcc	actaattttg	cttcccctyt	cttttataaa	cttgtttcct	cnggagttgc	360
ctaagagtcc	tgcatnanaa	cctaattggg	aatgaagcag	tgtgttc		407

<210> 134
 <211> 711
 <212> DNA
 <213> Homo sapiens

<400> 134						
ggcacgagcg	aagaccctgt	tcggaccctg	ccccgattcc	agactcaggt	agatcgtcgg	60
cataccctct	accgtggaca	ccaggcagcc	ctggggctga	tggagagaga	tcaggatatcc	120
cccaggagg	aggggctacc	ttgaggggat	gatagacctc	ccccactccc	agtgkkactc	180
tggaaatatg	aaggaaactag	ggagtgggaag	agatttcaga	gctggggaga	ggaatcctc	240
ccttcaaagc	cagcaactgc	ctttggggaa	tgtcgggggg	tctctccttt	ctcctgcttg	300

tgtkargtgg	tacacagtcc	ccccttcacc	tggcgggaag	ctgtcccgga	cagactcatc	360
tcagctttcc	cttggggcag	gatcgggggc	agcagctcca	gcagaaacag	caggatctgg	420
agcaggaagg	cctcgaggcc	acacaggggc	tgttgccggg	cgagtggggc	ccacccctct	480
ggragctggg	cagcctcttc	caggccttcg	tgaagaggga	gagccaggct	tatgcgtaag	540
cttcatagct	tctgctggcc	tggggtggac	ccaggacccc	tggggcctgg	gtgccctgag	600
tgggtgtaaa	gtggagcaat	cccttcacgc	tccttggcca	tgttctgag	ggccagcttg	660
gcctttgcct	taataaatgt	gctttatatt	caaaaaaaaa	aaaaaaaaac	t	711

<210> 135
 <211> 890
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (818)..(819)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (829)..(829)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (859)..(859)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (887)..(887)
 <223> n equals a,t,g, or c

<400>,135						
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tgagctacaa	caaaaggact	tcaggaacaa	gtaatgtatt	agtatgggtc	aagattggtg	120
ataggaactg	tctcaaaagg	atggtgggta	ttttaaatat	aaatagctaa	tgggggtggt	180
aggcctataa	aattaaatgc	cttgtataaa	atccaaaatg	aatgcaaaat	tgttttctact	240
tgtattgact	ttatgttgta	tgattccaat	ctctgttctg	tttggcactt	gtatttaatt	300
cttcaccttt	gtaagacatt	tgtatatatt	ggatgtgttc	attcaagcta	tttaatatct	360
ggcactgtta	atacacagta	ctttattgta	cagactgttt	tactgtttta	attgtagttc	420
tgtgtacttt	ttttggatgg	ggctggcatg	tttcttttgt	ttcctggcaa	tacgacgtgg	480
gaatttcaat	gcgtttttgt	gtagatgcta	acgtgtcaga	atcctttaca	ttcaactttt	540
ctaagaaaag	catttttcagt	cttgtagtgt	gtgcttacag	taactaattt	tgttgaaaat	600
ggtttcaagt	tattcaaatt	tgtacaggac	tgtaaagatt	tgttgacagc	aaaatgttga	660
agaaaaaagc	ttatagaata	aaagctataa	agtatatatt	aggatctgca	aacaatgaag	720
aattatgtaa	tatatgttac	aaatgtaagc	aaaggctctg	aaataaaatg	ccatagtttg	780
tgaaaaaaaa	aaaaaaaaaa	actcgagggg	gggcccgnna	ccaatcgnc	caaaagtgag	840
tcgtattaca	attcactgng	ccgtcgttta	caacgtcgtg	actgggnaaa		890

<210> 136
 <211> 1161
 <212> DNA
 <213> Homo sapiens

<400> 136						
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aactggtttg	aacccagtcc	actggactcg	aaagctcatg	ctcagaagcc	ccagggtccc	120
ctctaacttt	cttggttgct	gcaactcaga	gagcgctgga	atggagccag	ggcatgctcc	180
tcattctcagc	ggttcagggt	ttcattcttc	tatctccatc	cttctattta	attctgtact	240
tactaagacc	tgggggtaca	gggaggggct	tggagcctat	ttgccagct	gctgaatggg	300
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aacgagaaat	ccgggtctgg	aactcagatc	cctttgtatc	ctgtttcggg	gttgggtgtag	480
tttgttgctt	tccctaagat	gagcccagat	agggaaactg	aagtgcctgg	gstcctgtt	540
gggtcttctg	cggggagaga	atggcgattc	aactcccgtg	tactgttgaa	cttgacacaa	600
acacgctcac	atcccaggct	gcatacgtgt	tttgcttttag	aaatgacatg	aagccttttg	660
actatTTTTA	agagaaaggc	aatggctgtg	atatttcccc	tgcacctccc	tctcggggcc	720
acttggttaa	atgtcaggaa	agggagagta	tttcttggtc	aggaacattc	agagcttgct	780
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cctctgtttc	cctggaarct	tgcgcttgac	agttgcaggg	aggagggggt	tgagaatgag	900
cagccgagat	gcccacgtat	cgcgtgcccg	ctctaggagt	ggcgggggtg	tatttttag	960
ccatcctgat	tcagtagagg	catttcagcg	tttgttcaat	atttaattat	ccatctgaaa	1020
ttggcccatg	tggccttcag	tttggaagca	gctctctgtg	ctgtgatttc	ccagttgcat	1080
aaataaggaa	gtcaagggaa	tctcaatagc	cctccaaata	ataataacga	aaaaaaaaaa	1140
aaaaaaactc	gacggcacgt	a				1161

<210> 137
 <211> 2152
 <212> DNA
 <213> Homo sapiens

<400> 137						
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acaacgtggg	tcagggcaca	gagagatatt	taatgtcacc	ctcttggggg	ctttcatggga	120
ctccctctgc	cacatttttt	ggaggttggg	aaagttgcta	gaggcttcag	aactccagcc	180
taatggatcc	caaactcggg	agaatggctg	cgtccctgct	ggctgtgctg	ctgctgtctg	240
tgtggagcg	cggcatgttc	tctcaccct	ccccgccccc	ggcgtgttta	gagaaagtct	300
tccagtacat	tgaactccat	caggatgaat	ttgtgcagac	gctgaaggag	tgggtggcca	360
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ccgtggctgc	ggacacgctg	cagcgcctgg	gggcccggtg	ggcctcgggtg	gacatgggtc	480
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ccttcagagc	cctggagcaa	gatcttctctg	tgaatatcaa	attcatcatt	gaggggatgg	780
aagaggctgg	ctctgttgcc	ctggagggaac	ttgtggaaaa	agaaaaggac	cgattcttct	840
ctggtgtgga	ctacattgta	atttcagata	acctgtggat	cagccaaagg	aagccagcaa	900
tcacttatgg	aaccgggggg	aacagctact	tcatgggtgg	aggtgaaatgc	agagaccagg	960
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aataccgga	tagcagccgg	gttgagaaat	ttctgttcga	tactaaggag	gagattctaa	1200
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ttgcaaatat	tgatgacacc	cagtatctcg	cagcaaaaag	agcgatcaga	acagtgtttg	1500
gaacagaacc	agatatgac	cgggatggat	ccaccattcc	aattgccaaa	atgttccagg	1560
agatcgtcca	caagagcggtg	gtgctaattc	cgctggggagc	tgttgatgat	ggagaacatt	1620
cgcagaatga	gaaaatcaac	aggtggaact	acatagaggg	aaccaaatta	tttgctgcct	1680
ttttctttaga	gatggcccgag	ctccattaat	cacaagaacc	ttctagtctg	atctgatcca	1740
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ttgggtctag	tatagtacat	tttcccttcc	atttaaaatg	tcttgggata	tctggatcag	1860

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aggattggat	tccttccaac	cttttagcat	atctccaacc	ttgcaatttg	attggcataa	2040
tcactccggt	ttgctttcta	ggctctcaag	tgctcgtgac	acataatcat	tccatccaat	2100
gatcgccttt	gctttaccay	tctttccttt	tatcttatta	ataaaaaatgt	tg	2152

<210> 138
 <211> 1002
 <212> DNA
 <213> Homo sapiens

<400> 138						
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ctggccccac	ggggcattgc	tcttctctctg	gctctttctcc	ccacccctgg	gggcccgtg	180
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cgtggcctgc	tcctgcagca	accaggccag	ccgggtgac	tgcacacgga	gagacctggc	300
cgaggtccca	gccagcatcc	cgggtcaaac	gcgggtacctg	aacctgcaag	agaacggcat	360
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gctggagctt	tttgacaacc	ggctgaccac	ggtgcccacg	caggccttcg	agtacctgtc	540
caagctgcgg	gagctctggc	tgcggaacaa	ccccatcgag	agcatccctc	ccacgcctt	600
caaccgcgtg	ccctcgtcgc	ggcgccctga	cctgggcgag	ctcaagcggc	tggaatacat	660
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cctcaaggac	atcccccaacc	tgacggccct	gggtgcgcctg	gaggagctgg	agctgtcggg	780
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gctggaggag	ctcaacctgt	cccacaacaa	cctgatgtcg	ctgccccacg	acctcttcac	960
gcccctgcac	cgctcagagg	gggggccccg	tacccaattc	gc		1002

<210> 139
 <211> 1113
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (349)..(349)
 <223> n equals a,t,g, or c

<400> 139						
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ttttaacctc	ttccttgacg	ctagctgctt	gtgcaaatca	catcttggcc	gcctactctt	180
cttcacttgc	tgacagatgt	gtaggtgaga	aaagtctcat	agtcattggt	cctgaaagaa	240
gcttcagac	ccacttctag	ggccagtga	atatgcagga	aategctgc	ttctgggcca	300
ggacagagct	ggtctttttt	ttagtggggg	atggcgggca	gtggggcang	ggacattcaa	360
aatttatatt	ccaacagaca	gatagcatca	gcaggtacaa	ctacaagggt	atctacatag	420
atcatacatt	cacaaggcat	tattagttca	acagtgagaa	agccactcgt	gggttttctg	480
taacaatatc	ccacttcata	gtgtaaacag	gtactatatt	gttcacttac	aattccggaa	540
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gaggggaaag	acttttctct	cagaagttag	aatcttctct	cctcctttct	tggttaactg	720
agagcagtgt	tttgtttgct	caatattaca	tgtacaaaag	gagattagaa	gaaaatgcat	780
cacaaaacca	tcttgaacgt	tcagctcttc	ctgccaatat	atcacaaact	ttaggtttta	840
gacggggcct	gggaatacgt	aagtgttttt	tctttttttt	ttttttaagt	gaaagcaagt	900
ttattacgaa	agcaaaggga	taaaagaatg	gctgctccat	aggcagagag	cagcccagta	960

atcttataaat	aggaaaaatag	acactatggc	tacaaaaaat	aaaaaataaa	tgaggtagat	1020
aaaatttttca	cacccaggac	ttgcctgttc	caacttcata	gtcttcatga	aatattcatc	1080
aagaagacaa	aaaaaaaaa	aaaaaacctc	gta			1113

<210> 140
 <211> 1668
 <212> DNA
 <213> Homo sapiens

<400> 140						
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cccaagggtt	tgttccattt	ctcaattcta	gtctgtgaaa	ttgargtctg	atgaccactc	240
ttaagrgrgg	tgttcattag	ggkgcgggct	gggcattatg	agtgtgtttt	tcatgagkca	300
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ttccagctct	gtggccttgg	tcaggttacg	tctcttcagt	atcgtaactg	taatgtggag	420
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tctagtgtgt	gttacctaaa	aagsccttgt	tttaaatttc	tgtgatacct	aagaatttca	660
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ttagagataa	ttatttgtaa	tttttatagc	ttacttcaca	atgtgcccag	gtcagctgta	1620
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<210> 141
 <211> 1555
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1248)..(1248)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1389)..(1389)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1391)..(1391)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1393)..(1393)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1396)..(1396)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1551)..(1551)

<223> n equals a,t,g, or c

<400> 141

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gctcagcctc	tggatggagc	tctttccagc	agaagcccag	cggcaaaaat	ctcagaaaaa	180
tgaagaggga	aagcatggac	ccttaggaga	taatgaagag	aggaccagag	tatctactga	240
caaaagacag	gattactggg	agcagctaag	atgcctarat	gaaaggtttacc	catcactgc	300
tggttaggaa	atggattatg	agaactcgaa	cagagggaag	gtgaaatgca	accggaggaa	360
acactctgat	atgaggtttg	aggccttcaa	aattgctttg	cagcataagc	cacagtgagt	420
caggagtacc	agggagtggg	tagaatgttt	atttgtttaa	ctgagacttt	ttagttcatc	480
aattattttg	aagggtagaa	cactctgtgg	gctctctttc	tatttccttc	tgggtacaat	540
cacaaaaaaa	aaatctctcc	tagctgaaat	tacatgcagt	actagcaaag	ggtctctttg	600
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tcgttcaatt	tcaaatacaa	attaaaaaat	tttttcacat	ttgtatcct	gttatgtttt	720
ctcttttaca	aattgtctgt	tcgtatcttt	ttgtctctct	ttaggcctta	ttcttgtcaa	780
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gcttttaaaa	gttaatatgg	cccttcagac	accatcccaa	catcacataa	gaattttttc	960
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aaattacaaa	aacattgccg	gatgctaaca	ctgactttta	ttatgaatgt	aaacaagaaa	1500
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<210> 142

<211> 575

<212> DNA

<213> Homo sapiens

<400> 142

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agaccctgtg	ctccatggaa	gaagccatca	atgagaggat	ccaggaggtc	gccggctccc	180
taatatttag	ggcaataagc	agcattggcc	tggagtggca	gagcgtcacc	tccagggggg	240
acctggctac	ttgccccga	ggcttcgccg	tcaccggctg	cacttgtggc	tccgcctgtg	300
gctcgtggga	tgtgcgcgcc	gagaccacat	gtactggcca	gtgcgcgggc	atggactgga	360

ccggagcgcg	ctgctgtcgt	gtgcagccct	gaggtcgcgc	gcagcgcggtg	cacagcgcg	420
gcggaggcgg	ctccaggtcc	ggagggggtt	cggggggagct	ggaaataaac	ctggagatga	480
tgatgatgat	gatgatggaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	40
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<210> 143
 <211> 1532
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1412)..(1412)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1433)..(1433)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1446)..(1446)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1505)..(1505)
 <223> n equals a,t,g, or c

<400> 143						
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cagcattgct	gctaggctcc	tcctgcagat	catctgaaat	gaacctctct	tattgatttt	180
tattggccta	gagccaggag	tactgcattc	agttgacttt	cagggtaaaa	agaaaacagt	240
cctggttggt	gtcatcataa	acatatggac	cagtgtgatg	gtgaaatgag	atgaggctcc	300
gcaatggaac	tgtagccact	gcttttagcat	ttatcacttc	cttccttact	ttgtcttggt	360
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catgttacat	gctatctgct	ggcagtttct	ttctgatata	aaaatgaaac	agtatttctg	540
gacagaggac	acagaatttc	taattccagt	ggggcttggt	ttgctttcag	tttcttataa	600
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ataataaaga	ctttcgtttt	ggcattttgt	tctttttact	aaacataatt	aagtgtttta	720
taagcttcct	tgtaccgagt	gttgcataaa	acacttaaaa	ggacacaatt	agtgccctcg	780
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catgcattga	cagattactc	cttaggcaaa	agtatttaag	aagggaataag	tagaaattct	900
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caactgaaaa	gattgctttg	taaccttatt	tttttctgat	gtgtggttac	atccatgtct	1260
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cccggtagcc	aattcgccct	atagtgaagtc	gnattacaat	tactggccg	cgntttacaa	1440
cgctcngact	gggaaaaccc	tggcgttacc	caacttaatc	gccttgacgc	acatccccct	1500
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<210> 144
 <211> 1559
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1445)..(1445)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1551)..(1551)
 <223> n equals a,t,g, or c

<400> 144
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 gctgccagca gcagcgtctg caagctggac ggactcatcc accgcttcatcacgctcctt 180
 gcggacacca gcgactcccg ggcgttggag aaccgagggg cggatgccag catggcctgc 240
 cggaagctgg cgggtggcgca cccgctgctg ctgctcaggc acctgcccac gatcgcggcg 300
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 acagncctgc gcggagcggc ggatccccc gggcatggcc tgggctggtt ttgaatgaaa 1500
 cgacctgaac tgtcaaaaaa aaaaaaaaaa aaaccgrgg gggggcccgg nacccaatt 1559

<210> 145
 <211> 1021
 <212> DNA
 <213> Homo sapiens

<400> 145
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 tgttatcaaa gacaagaggc agaccattca ttcatttctc aaacactgaa tgccattctg 360
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cctctaatag	at ttaaagtc	agttaattct	ctctgaaatt	tgatgttttc	ttctataag	840
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gtataaaaaa	taacttctac	tgctttatgt	agtcatatag	gtctgcctaa	aataagaatt	960
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c						1021

<210> 146
 <211> 1024
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (32)..(32)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (713)..(713)
 <223> n equals a,t,g, or c

<400> 146						
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cgct						1024

<210> 147
 <211> 1231
 <212> DNA
 <213> Homo sapiens

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tttgtctgtg cccggaaggt ttggcatcat tcgtccaggc tgtgccctgg aaagtactac      180
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gtcaaggcct catttgcaga ggccaccgga gctagggcac tagcctgact ttaaggcag      360
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gaaaagtaat taaataacag attagaatct agtgagagcc tcctctctgg tgggtggtgg      600
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gtaattgctc gcaggagag cagtcttttt ggtgtaatat tgggatgtct gcttagttgg      960
caggggttca gtccaaatgg aagaatattg ggaaataaac ctccactatc ctttatagcc     1020
agggactttt ttcctattta ttcataaaat aaattatagt taattatacc cataacacct     1080
ttatttaaat ccagtgttct ccgcagcctt ttgtctattt atatgtgtac caagtgttaa     1140
acataattat tattgggcat ttgaactttg tttttcttta aagaaatgct gctattaaac     1200
atatttgtaa atggaaaaaa aaaaaa      a      1231
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<210> 148
 <211> 1223
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1204)..(1204)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1206)..(1206)
 <223> n equals a,t,g, or c

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tgcttcggga tcctgccctc cagaagtcct ccaaggcttg gtacttgctg cgtgtccagg      180
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agcaggccca' ggtcccctgt cctccacagc tcccagagga ggagctcttc ctaagaggcc      780
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 <212> DNA
 <213> Homo sapiens

<400> 149						
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cttttcttac	cttggcaaac	ctgtgagtga	ttccacaaag	atacagtatt	acttagctaw	480
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<210> 150
 <211> 1189
 <212> DNA
 <213> Homo sapiens

<400> 150						
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 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 151						
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ttagcctaaa	gcatacctga	aaatgctgag	ttaaagccaa	tgtttcttgg	tgacttgcca	300
gcttttgcag	ccttcttttc	tcacttctgc	ttatactttt	gctgggtggat	tcctttaatt	360
cataaagaca	tacctactct	gcctgggtct	tgaggagtgc	aatgtatgtc	tatttctctt	420
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aaaaaaaaaa	aaaaaa					496

<210> 152
 <211> 3153
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2584)..(2584)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2590)..(2590)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (3153)..(3153)
 <223> n equals a,t,g, or c

<400> 152						
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tgtcaccaac	aaagatttca	gggattttgt	cagggagaaa	aagtatcgga	cagaagctga	300
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caccagcca	atgaagtctg	tactctgggt	gcttccagtg	gaaaaggcat	tttgagggca	420
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<210> 153
 <211> 686
 <212> DNA
 <213> Homo sapiens

<400> 153						
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aaaaaaaaaa	aaaaaaaaaa	aaaaaa				686

<210> 154
 <211> 2496
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2340)..(2340)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2373)..(2373)
 <223> n equals a,t,g, or c

<400> 154						
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tgagaggcta	catttgcaga	agcagcagca	gcagaagaca	cagcgccggg	ccaggaggcg	360
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ccaagattgg	gcacttttta	acatcagaac	ttcctatcac	tgctgcattg	agttgctccg	2460
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<210> 155
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (919)..(919)
 <223> n equals a,t,g, or c

<400> 155						
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tggatatatta	caaatatgac	agtcagattc	ttttcatttg	gaaaaggtaa	aactccgaaa	180
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a		1001

<210> 156
 <211> 1142
 <212> DNA
 <213> Homo sapiens

<400> 156						
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<210> 157
 <211> 2238
 <212> DNA
 <213> Homo sapiens

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 <222> (12)..(12)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (45)..(45)
 <223> n equals a,t,g, or c

<400> 157						
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<210> 158
 <211> 1052
 <212> DNA
 <213> Homo sapiens

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<210> 159
 <211> 1492
 <212> DNA
 <213> Homo sapiens

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<210> 160
 <211> 954
 <212> DNA
 <213> Homo sapiens

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<210> 161
 <211> 2784
 <212> DNA
 <213> Homo sapiens

<400> 161						
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<210> 162
 <211> 943
 <212> DNA
 <213> Homo sapiens

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<210> 163
 <211> 1794
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1675)..(1675)
 <223> n equals a,t,g, or c

<400> 163

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<210> 164
 <211> 887
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (303)..(303)
 <223> n equals a,t,g, or c

<400> 164

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tctctgttag	tgaacattta	ggatttttcc	agttttttaa	tattacagt	acatatataa	600
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cacccttttg	ctagattctt	tagcacataa	cgtaaataatc	ccatagagtc	aaaaccaccc	720
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<210> 165
 <211> 1222
 <212> DNA
 <213> Homo sapiens

<400> 165						
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<210> 166
 <211> 1815
 <212> DNA
 <213> Homo sapiens

<400> 166						
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ggtcaaaact	tttgatcttt	gcttgacgtt	tttgtttttt	tctcttttac	actctccctg	180
ttccctgatt	aaatgaaggc	caggcttgcc	tagttccagg	gaaaaggccc	agggtgccta	240
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aaaaaaaaaa	aaaaa					1815

<210> 167
 <211> 1262
 <212> DNA
 <213> Homo sapiens

<400> 167						
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cg						1262

<210> 168
 <211> 632
 <212> DNA
 <213> Homo sapiens

<400> 168						
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<210> 169
 <211> 2572
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2527)..(2527)
 <223> n equals a,t,g, or c

<400> 169						
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gagcttcttg	tgcccttttg	ctctaattct	ggccacacag	agaatcagtc	ggcctattgt	300
caacctcttt	gtttcccggg	accttggttg	cagttctgca	gccacagagg	cagtgggat	360
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<210> 170
<211> 1488
<212> DNA
<213> Homo sapiens

<400> 170
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aaatatataa caagctgtgt tttcctaagc tgaaaaaaaa aaaaaaaaaa 1488

<210> 171
<211> 609
<212> DNA
<213> Homo sapiens

<400> 171
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cctccctacc ctgccccagc tagacaaata aaccccagca ggccgggaaa aaaaaaaaaa 600
aaaaaaaaa 609

<210> 172
<211> 612
<212> DNA
<213> Homo sapiens

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<400> 172
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gaaattcccc gtggcattag aggtgtttcg taagggtgctc cctgctgtct gtcctacaga      180
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taatctagta ggaaattttg tatgcttttg acaaacatct gatcctactg aactgaaaag      480
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<210> 173
<211> 704
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (287)..(287)
<223> n equals a,t,g, or c

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<400> 173
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ctctcgcaaa caaagacagc cacttcagag ctcttaggaa atagtgggtgc tcccatcatc      180
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cctctacaat atgccagga atttctggca ttttgccat cttattnata ggctattact      300
gaatttmagc ctmatcctmc caaattatta atgccaaaat attactctt gattcttagg      360
tgagtgcacc catgccaata aatttgccat gatctaacct taaatgtatt ctcatatatg      420
ctgtccaagt ttctrctgat taaaatggca aggccttttag ttctcctaca taggttttct      480
ctctccagag aaggcctcaa ttctctgact aggcctatgtt gggatataac tggaggcact      540
aataggtagt agggtaaatt ctttatttta ttatttttgg agacagggag ggtcttgctt      600
tgttcagact ggagtgcagt ggtgtgatca tggctcattg caactttgaa ctctggggcg      660
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<210> 174
<211> 613
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (25)..(25)
<223> n equals a,t,g, or c

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<400> 174
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cctgacacct tgggtcctca tgggcttac tctggcccag gccttggact gccacgtgtg      300
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catgaccacg cgcacctact acacccccac caggatgaag gtcagtaagt cctgcgtgcc      420
ccgctgcttc gagactgtgt atgatggcta ctccaagcac gcgtccacca cctcctgctg      480
ccagtacgac ctctgcaacg gcaccggcct tgccacccccg gccaccctgg ccctggcccc      540

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<210> 175
 <211> 1022
 <212> DNA
 <213> Homo sapiens

<400> 175						
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acacactgat	gctcaaatcc	taagggtcca	agctctaggc	cctggaggct	ggtagaagg	180
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gacagaaggg	ctcaccaagg	attgtggaca	tagggtaggc	cctggtacca	cgggtttcag	360
gctgttatca	cttcccttgt	aggaacatag	ccagaagcag	atgagccagg	gtagagggct	420
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agaagtatga	ttcctctgtc	ttcagttctt	ttcaggggca	tcctgcccac	agtaccaggt	900
tcccaagggg	ccccagtc	cgtggtgaag	cctagcactc	atgcagctct	tagggaacca	960
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cg						1022

<210> 176
 <211> 1766
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (14)..(14)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1750)..(1750)
 <223> n equals a,t,g, or c

<400> 176						
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cccgaattcc	ttcttgacc	aggaaagccg	gagacgaaga	ttcaccattg	cagactcgga	180
tcagttgcct	gggtactcgg	tggaaaccaa	cattctgccc	acaaaaatga	gagagaaaac	240
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tgtggaccct	tttgccagac	ctcgagggtc	tggcaggaaa	ggggaggatg	ccctttgccg	360
gtatttcagt	aacgagcgga	ttcctccgat	cattgaagag	agctcctctc	ccccataccg	420
gttctccaga	cccacgaccg	agcggcatct	ggcccggggt	gcggactaca	tccgaggaag	480

cagggtgctac	atcaactcag	atctccacag	cagcccacg	attccattcc	aggaggaagg	540
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tgtggagaca	aaaggaggga	aatgggtaga	gcctgtttgt	cttgcttccc	cagagataga	900
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acagtttgct	aattagaaat	atcttgaaa	gcctctgggt	cactaatttt	caatagcat	1560
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tttgtagtaa	tggaagagta	ctatcttggt	aatttaagta	ttttaaatat	agttgtatat	1680
ttttcttaaa	aaaaaaaaaa	aaaaaaaaaa	aaagggcggc	cgctctagag	gatcccgcg	1740
ggggcccan	attacgcgtg	agcggt				1766

<210> 177
 <211> 815
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (406)..(406)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (794)..(794)
 <223> n equals a,t,g, or c

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tktaawtac	acagaggaaa	mtattgtgga	aggacctctt	tgttgctttc	ccttctaagt	120
tgtcttcttc	ttcttcttct	tcttcttctt	cttcttcttt	ggtccttaag	tgaaataaag	180
actctaaaac	taatttgtat	attatcagcc	agagatgcgg	atggcagtcg	agccaaatcg	240
catggctttc	agatcaggta	ttctgcacat	tcattccaag	gtcatagatt	tttaaaagga	300
cctggatttg	aagagatggc	aaatgrtgag	ccatcagaaa	acttaatttg	gaaaacatgt	360
atgtagccag	tgtggatatt	gtggcctctc	tcaagacaca	ttgcnactg	tagacytc	420
tcagtccagt	gtgagtattt	tggagtaggt	tggatgtaga	ttttgttttt	atcgttgatt	480
tgtaccgaca	gaaatagaca	tttcatcatg	taaaattcct	gttattctgg	aaaaacctat	540
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accctatcct	gttattttaa	tgtgaacatt	tattgtacat	tcagtgagtt	atagtgttaa	720
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aaaaaaaaaa	attnctgcgg	tccgcaaggg	aattc			815

<210> 178
 <211> 617
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (9)..(9)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (513)..(513)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (559)..(559)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (587)..(587)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (602)..(602)

<223> n equals a,t,g, or c

<400> 178

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agagctcacc	aatcagactg	cccttgtcta	tccatgagca	gatgtttgat	agtattgcgg	180
aggccctcta	gtgggtatgc	tgccaagcaa	ctggagtggc	acttgggctc	taatccagtt	240
gtctatccct	ttcacccctg	catttcatca	gccaaacaaa	aaccaactaa	ctcagaaaaa	300
aaggaaaagcc	cctcaagggt	cctttgaccc	cgatatctac	atagatgcta	tcgggggtccc	360
ctgaggggta	ccaaacraat	tcaaagctcg	aaatcaaata	gctgctggat	tcaagtctgt	420
ccttttcttg	tgggtacta	ttaataaaaa	tgtagactgg	ataaattaca	tatactataa	480
aaaaaaaaaa	aaaaaaaaaa	ctcgaggggg	ggnccggtac	ccaattcggc	ctatagttag	540
tcgtattaca	atcatgggnc	gtcgtttttac	aaagtcgtga	ctggggnaaa	acctggcggt	600
anccaattta	atcgggct					617

<210> 179

<211> 2286

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2262)..(2262)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2264)..(2264)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2272)..(2272)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2278)..(2279)
 <223> n equals a,t,g, or c

<400> 179
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 cgacgtagct tttggctttt ttctgggcta catgcagtac agcatcgtgg actattgctg 180
 gctctcacc cataatgctc cggtcctctt tttactgtgg agtcaacgat gacaccatct 240
 cattgattat ggcaccagga agtctgaagg tttccacatt cgatgatgtc aacctaacc 300
 agcagccatc ccgcttgtcc ctcttaggca tttcaggctt cctttgggat ttcagggtgc 360
 ccatgatctt gatgtgctgc taggctggag cacacactgg ccattactga acacagccat 420
 attagggaaa gcaaaaaaac ccaaaaaatc ctctattgta ttttattca acaactgttt 480
 atgtttccag gacaactgca aagaaaaac gctgaggtgg ttatactgtt gctgttaaaa 540
 gttggtatca gtaagatttg tgttttgtga taatccctaa atcaacatac cacttgtaaa 600
 ctgaacttcg agaaagaaac atgatgttca ttctgtaaat atacatgcag acagggtcatg 660
 tactaatcct agtccttttc ctgaggtaga ttttaaacag tttttttaa gtccaagaca 720
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 gcatgagaga gggcagagaa actaagttgc tggggaaagt tagaggaact gaaatttgg 1140
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 tagtga 2286

<210> 180
 <211> 1240
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1225)..(1225)

<223> n equals a,t,g, or c

<400> 180

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gaactggagc	taaggctaag	tggctctgtc	gtttaataag	agtttgaatc	agatggcctg	180
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agccattgtc	tgcctcctta	tctgtcatgc	tctgtcacg	agcgtcagcc	tgagcttcaa	360
tctgtgtgta	tatctgcagc	ttacgtcctt	gccaccctc	cagaacccag	tttcatcctt	420
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ttttctaaaa	ctkgggagag	ggggaagtg	gtaagggtgg	gcgataatcc	tgtctattta	1200
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<210> 181

<211> 997

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (963)..(963)

<223> n equals a,t,g, or c

<400> 181

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tctgtgctag	agggcatggc	agctggcacc	tttytytata	tcaccttyt	ggaaatcctg	960
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<210> 182

<211> 1770

<212> DNA

<213> Homo sapiens

<400> 182

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ctctgatctg	cagagctcca	ggacacctgg	ggtctggaag	gcgaggctg	aggacaccag	180
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aagcagaagg	tgctgacctc	tttggcctgg	aggtgctgcc	ctggctacac	gggccccaac	420
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<210> 183

<211> 1167

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (432)..(432)

<223> n equals a,t,g, or c

<400> 183

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gcagatccca	ccggtcagcc	gcgcctacac	cactgcctgc	gtcctcacca	ccgcgccgt	120
gcagttggaa	ttgatcacac	cttttcagtt	gtacttcaat	cctgaattaa	tctttaaaca	180
ctttcaaata	tggagattaa	tcaccaactt	cttatttttt	gggccagttg	gattcaattt	240
tttattttaac	atgatttttc	tatatcggtt	ctgtcgaatg	ctagaagaag	gctctttccg	300
aggtcggaca	gcagactttg	tatttatgtt	ccttttttgt	ggattcttaa	tgaccctttt	360
tggtctgttt	gtgagcttag	ttttcttggg	ccaggccttt	acaataatgc	tcgtctatgt	420
gtggagccga	angaaccctt	atgtccgcac	gaacttcttc	ggccttctca	acttccaggc	480
cccctttctg	ccctgggtgc	tcatgggatt	ttccttggtg	ttggggaat	caatcattgt	540
ggaccttttg	ggtattgcag	ttggacacat	atattttttc	ttggaagatg	tatttcccaa	600
tcaacctgg	ggaataagaa	ttctgaaaac	accatctatt	ttgaaagcta	tttttgatac	660
accagatgag	gatccaaatt	acaatccact	acctgaggaa	cggccaggag	gcttcgcctg	720

gggtgagggc	cagcggcttg	gaggttaaag	cagcagtgcc	aataatgaga	cccagctggg	780
aaggactcgg	tgataccac	tgggatcttt	tatcctttgt	tgcaaaagtg	tggacacttt	840
tgacagcttg	gcagatttta	actccagaag	cactttatga	aatggtacac	tgactaatcc	900
agaagacatt	tccaacagtt	tgccagtggg	tcctcactac	actgtactg	aaagtgtaat	960
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aaaaaaaaaa	aaaaaaagg	cggccgc				1167

<210> 184
 <211> 1618
 <212> DNA
 <213> Homo sapiens

<400> 184						
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gtggccagcg	actgccaacg	gtgctgtgac	tctgaggacc	ccctggatcc	tgcccatgta	240
tcctcagcct	cttcctccgg	ccgccccac	gcctgcctg	agatcagacc	ctacattaat	300
atcaccatcc	tgaagggtga	caaaggggac	ccaggcccaa	tgggcctgcc	aggggtacatg	360
ggcagggagg	gtccccaagg	ggagcctggc	cctcagggca	gcaaggggtga	caagggggag	420
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aggaagacct	gtgctataaa	ccacctgcc	tgatcctgcc	cctgcctgac	cccgcacg	1560
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<210> 185
 <211> 1338
 <212> DNA
 <213> Homo sapiens

<400> 185						
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caagtcacaa	attggtccag	ctgctgcttg	cgtgtctttg	catggcacc	ccacaccaac	120
aagtttgacg	tgccctgct	agatgactca	gtccgtgtgt	ataatgccag	cagcaccata	180
gtccccctcc	tgaagcaccc	gctgcagcga	aatgtggcgt	ctctggcctg	gaagcccctt	240
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acctccttgt	ctaccgcacc	ctcttctggc	tgtgcccaag	tgctgtctca	ccctgggcat	360
acacctgtta	ccagcttggc	ctgggcccc	agtggggggc	ggctgctctc	agcttcaccg	420
tggatgctgc	tatccgggta	tgggatgtct	caacagagac	ctgtgtcccc	cttccctggt	480

ttcgaggagg	tggggtgacc	aactgctctg	gtccccagac	ggcagcaaaa	tcctggctac	540
cactccttca	gctgtctttc	gagtctggga	ggcccagatg	tggacttggtg	agaggtggcc	600
tactctatca	gggcgctgtc	agactggctg	ctggagccca	gatggcagcc	gactgctgtt	660
cactgtattg	ggagagccac	tgatttactc	cctgtctttt	ccagaacgttg	tggtgagg	720
aaaggggtgc	gttggaggtg	caaagtcagc	aacgattgtg	gcagatctgt	ctgagacaac	780
aatacagaca	ccagatgggtg	aggagaggct	tgggggagag	gctcactcca	tggtctggga	840
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cattatccag	ggggagccag	gagcccagcc	ccagctcatc	actttccatc	ttccttcaac	1020
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tttgtcaatg	cccagttttc	acgttttagc	ccagtgttg	ggcggccca	ggaacccct	1140
gctgggggtg	gaggctctat	tcatgacctg	ccctcttta	ctgagacatc	cccaacctct	1200
gcccttggg	accctctccc	agggccacca	cctgttctgc	cccactcccc	acattccac	1260
ctctaagaat	aaataagttt	tccttttgtt	ttccaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1320
aaaaaaaaaa	aaaaaaaaaa					1338

<210> 186

<211> 813

<212> DNA

<213> Homo sapiens

<400> 186

gaagaaggta	cgctgcaggt	accggtccgg	aattcccggg	tcgacccacg	cgctccgcaa	60
aagcagacat	agcttcagat	gcagcttgat	ccagggtca	gatgcatga	tcagaatcca	120
attcttgcac	ctgtttcttt	gggttggtt	cattttcagg	cagccccctt	cctcatatcc	180
tcaagatggc	agagacagcc	catggtcttt	cccttgca	gacagatcac	caggaaacaa	240
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aggccgggct	ggccttccct	aaagtgtatg	tgtctcggtg	gggagaggta	cggatctgaa	420
ccaaaacgag	ggctgtccag	cgtcagcaaa	tatctcccgc	agtcccagtg	cctccagcag	480
gaggcaaaagc	atcaaccctt	ccgtctggct	cctctactgaa	aaattccctc	agcagcctca	540
caggcccttag	gcttgtctta	gctacttctt	catctacttt	tttgctttct	taattatttt	600
tcttttcttt	tttcttattt	tattttattt	tatttttagat	ggagtttcgc	tccgtcgccc	660
aggctgaagt	gcagtggcgt	gatcttggct	cggtgcaacc	tccacctccc	gggttcagga	720
gaatcgcttg	agccccagga	ggcggagggt	gtgggaagcc	aagatcgcac	cactgcactc	780
cagcctgggc	aacaagagca	gaacgccatc	tca			813

<210> 187

<211> 2081

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (538)..(538)

<223> n equals a,t,g, or c

<400> 187

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cagaatctaa	tgcagagtac	cttgctcatt	tggtgccagg	agccacgtg	gtaaaagcat	120
ttaacacccat	ctcagcctgg	gctctccagt	caggagcact	ggatgcaagt	cggcagggtg	180
ttgtgtgtgg	aaatgacagc	aaagccaagc	aaagagtgat	ggatattgtt	cgtaatcttg	240
gacttactcc	aatggatcaa	ggatcactca	tggcagccaa	agaaattgaa	aagtaccccc	300
tgcagctatt	tccaatgtgg	aggttccctt	tctatttgct	tgtgtgtgtg	tgtgtcttct	360
tgtttttcta	ttgtgttata	agagacgtaa	tctaccctta	tgtttatgaa	aagaaagata	420
atacatttcg	tatggctatt	tccattccaa	atcgtatcct	tccaataaca	gcacttacac	480
tgcttgcttt	ggtttactcc	ctgggtgttat	tgctgccatt	ctacaactgt	accgaggnc	540

caaaataaccg	tcgattccca	gactggccttg	accactggat	gctttgccga	aagcagcttg	600
gcttggtagc	tctgggattt	gccttccttc	awgtcctctm	cmcacttggtg	attcctattc	660
gatattatgt	acgatgraga	ttgggaaact	taaccgttac	ccagscaata	ctcaagaagg	720
agaatccatt	tagcacytcy	tcagcctggc	tcagtgattc	atatgtggct	ttgggaatac	780
ttgggttttt	tctgtttgta	ctctgggaa	tcacttcttt	gccatctggt	agcaatgcag	840
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aaggaactca	aaacactaga	aaaagcattg	aatggaaaat	caatatttaa	aacaaagttc	1140
aatttagctg	gatttctgaa	ctatggtttt	gaatgtttta	agaagaatga	tgggtacagt	1200
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cactaaagag	tttcttgggt	atgggcaaca	tgcatgacct	aatgtcttgcaaaatccaat		1440
agaagtattg	cagcttcctt	ctctggctca	agggctgagt	taagtgaag	gaaaaacagc	1500
acaatgggtg	aaactagata	aggctttatt	aggtatatct	gaggaagtgg	gtcacatgaa	1560
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agcaaagaag	ggttgataaa	agttcttgat	caaaaagtgc	aaagaaacca	gaattttaga	1920
cagcaagcta	aataaatatt	gtaaaattgc	actatatattg	gttaagtatt	atttaggtat	1980
tataatatgc	tttgtaaatt	ttatatcca	aatattgctc	aatatttttc	atctattaaa	2040
ttaatttcta	gtgtaaaaaa	aaaaaaaaaa	agggcggccg	c		2081

<210> 188
 <211> 312
 <212> DNA
 <213> Homo sapiens

<400> 188						
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agggccagcc	caccagcat	ccccaccct	gatgacgctg	tcccacaac	tggtgaaact	120
ggtgcatttt	gtgtgtgcct	tccagagcca	gtggactggt	gtgtatccaa	tgatgccacc	180
tctgaaacct	acagaaccac	tatgctttgc	atgtgtacct	tcaggggtct	gagggccagg	240
ctgtctggtg	gctctgctcc	tgggtgacag	agcaagactc	tgtctcaaaa	aaaaaaaaaa	300
agggcgccgc	ct					312

<210> 189
 <211> 864
 <212> DNA
 <213> Homo sapiens

<400> 189						
ggcagagcg	gaccgggccc	gcggggctgc	tgcggggcga	tcgggccggg	ccgctgccgc	60
gccatggact	cccggtgtcca	gcctgagttc	cagcctcact	gagtgccac	ccccaaagt	120
ctgccagccg	aggaagcccc	cagcactgac	catgtctatt	atggaccaca	gccccaccac	180
gggctgtgtc	acagtcacgc	tcactcctcat	tgccatcgcg	gccctggggg	cctttgatcc	240
tgggtgctg	gtgtacctg	cggctgcagc	gcacagcca	gtcagaggac	gaggagagca	300
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cccctcggcc	tccaggtgag	gctgcccatt	gcaggcactg	ggtaggcctg	accttgctg	660

ggctcatggc	cctgtagcgc	ttttgttact	tgaatgtcta	gctgagcctg	tttttgatgg	720
agctactact	gtaatgcgtg	aactaacaaa	cctgtgaact	gtaaataaggc	ccctggaagc	780
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aaaaaaaaaa	aaaaaaaaaa	aaaa				864

<210> 190
 <211> 1267
 <212> DNA
 <213> Homo sapiens

<400> 190						
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agattgaaga	tggatacgtg	acaatcccag	ggaccgctgc	actgacttca	tttccttaga	120
caagacacag	tgtagggccc	ggcccggtgt	ggccccagga	ctccttttga	atatagctgt	180
ggacaatgaa	tcctgcgagc	gatgggggca	catcagagag	catttttgac	ctggactatg	240
catcctgggg	gatccgctcc	acgctgatgg	tcgctggctt	tgtcttctac	ttgggcgtct	300
ttgtggctct	ccaccagctg	tcctcttccc	tgaatgccac	ttaccgttct	ttgggtggcca	360
gagagaaggt	cttctgggac	ctggcggcca	cggtgcagt	ctttggtgtt	cagagcacag	420
ccgcagctgt	gggctctgct	gggggaccct	gtgctgcatg	ccgacaaggc	gcgtggccag	480
cagaactggt	gctggtttca	catcacgaca	gcaacgggat	tcttttgctt	tgaaaatggt	540
gcagtccacc	tgtccaactt	gatcttccgg	acatttgact	tgtttctggt	tatccaccat	600
ctctttgcct	ttcttgggtt	tcttggctgc	ttgggtcaatc	tccaagctgg	ccactatcta	660
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aaaaaaa						1267

<210> 191
 <211> 1258
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1196)..(1196)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1200)..(1200)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1237)..(1237)

<223> n equals a,t,g, or c

<400> 191

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aggctgaaag	cgtctctagc	agctgatatc	cccagacttg	gatatagttc	ctcatcccat	120
cacaagtaca	tcccccgag	ggcagtgtt	tatgtacctg	gaaatgatga	aaagaaaata	180
aagaagattc	catccctgaa	tgtagattgt	gcagtgtcga	actgtgagga	tggagtggct	240
gcaaacaaaa	agaatgaagc	tcgactgaga	attgtaaaaa	ctcttgaaga	cattgatctg	300
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agtcctgaag	aaatccagt	gtttgcagac	aaattttcat	tccacttaaa	aggccgaaaa	480
cttgaacaac	caatgaattt	aatccctttt	gtggaaactg	caatgggttt	gctcaatttt	540
aaggcagtgt	gtgaagaaac	cctgaaggtc	gggcctcaag	taggtctctt	tctagatgca	600
gtcgtttttg	gaggagaaga	ctttcgagcc	agcaggtg	caacaagtag	taaagaaacc	660
ctggatattc	tctacgcccg	gcaaaagatt	gttgtcatag	cgaaagcctt	tgggtctcaa	720
gccgtagatc	tgggtgtacat	tgacttttcca	gatggagctg	ggctgcttag	acagtcacga	780
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gacatgccat	tactgaagca	ggcccagaac	actgttacgc	ttgccacctc	catcaaggaa	1020
aaatgatctg	ttaaataaag	ctgtcatcag	gctaaagggt	attgaagctg	cagagggatc	1080
aacttggtg	tgccagagga	cgccaatgaa	gtttgaaaca	ccaacaatca	gagattttgt	1140
ttctgttctc	cattaaatca	tgagcttttg	tgcccagagc	tctggacgga	ctgttncctn	1200
aggaatttaa	ccggatggga	agttttttta	acttttncaa	ccaacttttt	taaggccc	1258

<210> 192

<211> 883

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (19)..(19)

<223> n equals a,t,g, or c

<400> 192

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gtgaactttc	catccggata	ggtagagctg	ggcttctttc	agacaagagt	gagaatgggtg	180
aggcatatca	gagaaagaag	gcggcagcca	ctggccttcc	agagggtcct	gctgtccctg	240
tgcttctctg	agggaatctg	gcacagcccc	gcggcagcag	ctggaggagg	atcgcaactg	300
tcatcttggc	catcactata	cacaacgttc	cagaggggtc	cgctgttggg	gttggatttg	360
gggctataga	aaagacggca	tctgctacct	ttgagagtgc	caggaatttg	gccattggaa	420
tcgggatcca	gaattttccc	gagggccttg	ctgtcagcct	tcccttgcca	ggggcaggct	480
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aacagcagtg	gttgggttct	atgggacaac	aagcttcttt	cttcacatta	aaactttttt	840
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<210> 193

<211> 1465

<212> DNA

<213> Homo sapiens

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<400> 193
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ataaatataa taattgagag gtctgcatta gatgtggcag ggagaacaag caaaagaga      180
tttcagagaa gatcactgga attggcagag gccttgaagg gcagagtcta gcatacagaa      240
gatgtaaagc cacattctgt gaaggtaagt agatgtgttt acctcttttg cactgtactg      300
gtgcattatg gggtaaatr ttttactttt tcctgtattg cttagcacag agttttgcct      360
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aggacttgaa atgatcagtt taaggtcttg atgggtattg aagactcaaa ggatgatggc      480
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cacatgggtc agtaatgcc a ttgaaaaaca aaattttaga ctaagtgggg tcgcagaaat      720
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<210> 194
<211> 996
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<220>
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<222> (996)..(996)
<223> n equals a,t,g, or c

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aacccttata aatattattt ctatttatcc tgctcagtgt gtttctctgta acaaatcggt      180
caagaaactc tgggtcccttc atgaacatat caagatcgtc catggatatg cagaaaagaa      240
attttcctgt gaaatttgtg agaagaaatt ctataccatg gctcatgtgc ggaaacacat      300
ggttgacac acaaaagaca tgccattaca tgcgaaacct gtggaaaatc attcaaacgc      360
atatgtcact caaggtgcac tccktgcagc attctrigaga gaagcccttt agatgcgaga      420
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ggcacaaaca gttcatgtgc cagtgggtg gcaaggattt caacatgaag cagtacttcg      540
acgaacacat gaaaacacac actggagaga aaccctttat ctgtgaaatc tgtggcaaaa      600
gcttcaccag ccgccccaac atgaagagac accgcagaac tcacacaggc gagaagccct      660
atccatgtga tgtgtgtggc cagcggttcc gcttctcgaa catgcttaag gccacaaagg      720
agaagtgcct tcgggtgacc agccccgtgg aatgtgccac ctgctgtcca gatccactt      780
acaacttccc cagccacccc agttccttct gtggtgaaca cagccacaac ccnaccctc      840

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caatcaatat gaatcctgta agcactcttc ccctcggggc atccccccacc ctttctcaca	900
ccgcacatcc acccacaccc tcaccaccca caccamcttc ccatccctcc aktccctcac	960
ctccccgccac ctccagctct ctttaagagt gagccn	996

<210> 195
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (248)..(248)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (328)..(328)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (357)..(357)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (372)..(372)
 <223> n equals a,t,g, or c

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agaacgtgaa gagtacaatc tggacaggat cagaagtaga gaatgaagtt gtaaagagaa	180
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aggaatgnaa tctttgtttg aggagcattc cggaaaatta taagctgttc agaaagggtt	300
aattagacca gggacctttt aagttaantt cacactcaaa gttaaataa tgttgngat	360
tcactcctgt gnaaaattgg gttagttttc atttgccctt ttaaacaaaa ctt	413

<210> 196
 <211> 1369
 <212> DNA
 <213> Homo sapiens

<400> 196	
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ggtgaaagta ctgaaatccc accttatgtg atgaagtgtccgagcaatgg tttgtgtagc	180
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gtcacttttg actgtgcagt gaaaccatct gttacctgtg ttgatcaaga cttcaaattc	300
caaaagaact tcatcattaa catgacttgc agattttgct ggcagcttcc tgaaacagat	360
tacgagtgtg ccaactccac cagctgcatg acggtgtcct gtccctcgga gcgctaccct	420
gccaaactgca cgggtgcggga ccacgtccac tgcttggtga accgtacttt tcccaaaatg	480

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<210> 197

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (4)..(4)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (8)..(8)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (28)..(28)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (57)..(57)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (61)..(61)

<223> n equals a,t,g, or c

<400> 197

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gcaggaattc	ggcacgagtc	ctgacctcag	gtgatccacc	cacctcggct	tcccaaagtg	180
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ctgggatttc	agggagttcc	ctcatttcta	aaatgagggg	gtcagagcag	gtgatatcca	480
tgtttcttcc	ctttctgata	ttgttgctcg	tggcatattc	tttgtatggc	gaatttaata	540
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<210> 198
 <211> 629
 <212> DNA
 <213> Homo sapiens

<400> 198
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 gagcctcctg cacctcaaca tcacgctcac ccttttgggt ttagcccagt gttatttagc 180
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 gccctttcca ggtggattca gacctacact agaacgcaca gctttgggag tgacacacag 540
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 gcagcctcga gggacacaca ggccaaagt 629

<210> 199
 <211> 2497
 <212> DNA
 <213> Homo sapiens

<400> 199
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<210> 200
 <211> 1217
 <212> DNA
 <213> Homo sapiens

<400> 200						
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<210> 201
 <211> 1563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n equals a,t,g, or c

<400> 201						
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aaa						1563

<210> 202
 <211> 756
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (230)..(230)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
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 <223> n equals a,t,g, or c

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<210> 203
 <211> 1402
 <212> DNA
 <213> Homo sapiens

<400> 203

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<210> 204
 <211> 1417
 <212> DNA
 <213> Homo sapiens

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<210> 205

<211> 1965
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (333)..(333)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1961)..(1961)
 <223> n equals a,t,g, or c

<400> 205
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 atgatgtgct ttctgcccc gtggtaattc atcttggtt gctatgttaa aactgtaaat 1860
 acaacagAAC attaatAaat atctcttgtg tagcaccttt aaaaaaaaaa aaaaaaaaaa 1920
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naaaa 1965

<210> 206
 <211> 529
 <212> DNA
 <213> Homo sapiens

<400> 206
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ctgttcggca	gcatggcta	ctacgtggcg	ctggccctgga	cctcatcggc	gctcatgtac	300
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<210> 207
 <211> 1146
 <212> DNA
 <213> Homo sapiens

<400> 207						
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tgacagaata	aataaagtgg	atgctacccc	actccagat	caaaagcaat	ttaattaaag	720
tctcttaagt	tgtaaagagt	tttaaatgat	ccgtgttgaa	ggcgaatsct	gcyaaatgca	780
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cccattgcggg	caagcccatt	gagggttatc	attaagtaaa	gaaataaaga	gggggaaaaa	1020
agcctgcctg	ttccaaaaaac	ctcatcagat	aatgacctca	gtgattgggt	tttcattacc	1080
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aaattc						1146

<210> 208
 <211> 1346
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (537)..(537)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (880)..(880)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1115)..(1115)
 <223> n equals a,t,g, or c

<400> 208						
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<210> 209

<211> 1974

<212> DNA

<213> Homo sapiens

<400> 209

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gacattggaa	acaaatagaa	cacaatataa	tttacattaa	aaaataat	ctaccaaaat	1860
ggaaaggaaa	tgttctatgt	tgttcaggct	aggagtatat	tggttcgaaa	tcccagggaa	1920
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<210> 210
 <211> 890
 <212> DNA
 <213> Homo sapiens

<400> 210						
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cggtttgcc	aggtggatac	tgatgaaaat	attctgctgg	cgagtctcca	cagtcaccag	180
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aaaaggagtc	tgggattgag	tgaaacacaa	attattccag	gaaaagggca	ggaaaaacca	840
ctgcaaaaca	tagaacctga	ccttgtacat	cacctgacat	tccaagcaag		890

<210> 211
 <211> 1043
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (987)..(987)
 <223> n equals a,t,g, or c

<400> 211						
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cttctctgga	taatctcaga	tttgatactg	tgttttctta	aatgtggtaa	tcccggaaact	240
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caattgcaaa	gatatggaac	cagcctaagt	ccacatttaa	ctgatgagtg	gataaaggaa	960
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actcaggctt	tccaggagcc	cag				1043

<210> 212
 <211> 1079
 <212> DNA
 <213> Homo sapiens

<400> 212
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 aactttttta taagggattc attttttaac acatgagaat tcattttcaa atttttggtt 240
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 aaagtogaat tcaaaggatt tttatttgta atatacttaa ctttctctt gtaagttgcc 360
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 ctagagttaa acccagttga attttagttt aatcttggct ggtcttgaag atgttagtaa 660
 tctctattca tttttttkga aagttaccaa tgaratcaga aagttaatta gaaaacatct 720
 agttgaatcc cctgttttta atagatgggg aaaccaagac ccagagaata taatccaaag 780
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<210> 213
 <211> 2103
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2101)..(2102)
 <223> n equals a,t,g, or c

<400> 213
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 ctttaagggc ggggctccg gacgactgta tctgagcccc agactgcccc gagtttctgt 180
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 ccccgctcgt cctccccggg cccagaggca cctcggcttc agtcattgctg agcagagtat 300
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 acccgcttca agaagcctgc tgagttcacc acaggggtgc ctgggcggg tctmtgagac 480
 agtgggtgat ttgatgctcc tcactctgct ggtgctaggt atgtgtggg tggcatcagc 540
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 cccctacctc tactcatgca tctccttcct tggggttctg ctgctcctgg ctgctggaag 660
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caggcctcac	cacactctgt	ctggtgaaga	ccttcactgc	agctgtgcgg	gcagagctga	1440
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aaggggatag	ggaggaggag	gcttcagcca	tcagcaataa	agttgatccc	agggtttgct	2040
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nna						2103

<210> 214
 <211> 1212
 <212> DNA
 <213> Homo sapiens

<400> 214						
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tcttcggccg	gcgctgggcc	atcgccagcg	acgacttggt	cttcccaggg	ttcttcgagc	180
tggtcgtgcg	agtgcgtggg	tggattggca	ttctgacgtt	gtatctcatg	cacagaggaa	240
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tggcagttgt	catatgtact	gtgtcagcca	tcatgtgtgt	cagcatgaga	ggaacgattt	360
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ccaggaaagt	gatctggatg	cagaattaga	aaactgccat	cattacatgc	agtttgcagc	960
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aaaaaactcg	ag					1212

<210> 215
 <211> 616
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature

<222> (580)..(580)
 <223> n equals a,t,g, or c

<400> 215
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 tgtggctgtg gtgggtgtggg tctttgcctg tggacccgtg gaagacaaag aagacagttt 180
 tggatggta agctattttc ttgcttcagg gctccctccc ctgctttttg aagcctcaca 240
 aaccaggact gtgagggcag gaaggcttgg ggtctttgtg tgctgagcct cattaggggt 300
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 ctgaggctgc agtagaagca gacagtctct gcctcctgct ttgccttttc tccctcccat 420
 tcaactgttg ttattgccct caagaataac aggttgccca gctactcgag argcttaagt 480
 gggaggattg cttgacccca ggagttcgag gctgcagtga gctatgatcg cttcactgag 540
 ctatagcctg gcagacacag agagacccta tctcaagcan acagacaaac aaaaaaaaaa 600
 aaaaaaaaaa ctcgag 616

<210> 216
 <211> 1144
 <212> DNA
 <213> Homo sapiens

<400> 216
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 aatttacata tatctgtgtg tatatatgtg tgtggcacag tcacacacac acacacaaat 180
 atgtatacag atgcttcctg gcttacaata ggatttcac ctgataaatt catcgtaaatt 240
 caaaagtatt gcaagttgaa aatgcatttc ataccccagt aagttcatca tttgktcaaa 300
 agtattgtaa gtcagaatac atttgacatc tggataagtc cattataaag tcaaaacatt 360
 ttaagtctaa tcattgtaat ttgggtaccg tctatgtaga tacgtaaatc atacattaag 420
 ggtgactagg tgccagggtt aatgttatga aaatgaattt caagtctcac aggcacattc 480
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 tgttcatact acaatggcag agttgcataa ttgtgacaga aatcaaattg cttacaataa 600
 ctaaggcatt tctacatagc cttttaaagt aaaaagttta ttcatgtgtg gtctacataa 660
 cgtggaggaa tttgtagcgg acaggctatt acagtcagtg aattgaaagg aagggagaag 720
 ttgggggaga ctagtagctt tttgaaggta ttattttaga gatttatgaa kttttggaga 780
 acaagggatg aggaaaaagt attgaagaat ttggggagagc aggatataca ttagtttctg 840
 actttatttg gaatgcagat cagagaaagg ctgggataga aaactgaaat aataattata 900
 gccttcggtg aatatcagca ggaatgatg gactataggg agggtagact aggtgataga 960
 gccattgtg gcagtttcgg taggacatca ttgggtgtata cgtatatgtt atttgtgatt 1020
 ttgtttatct ttttttaata agcaaaagga aaagtgtcct gatattgttt ggctttgtga 1080
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 cgta 1144

<210> 217
 <211> 1649
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1249)..(1249)
 <223> n equals a,t,g, or c

<400> 217
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 gcacgaggga tctgtgtggc atgggtatgtg tgtttatgtg tattgtgggt gtctgtgtgg 120
 catgctgtgc gtgtgtgtat tgtggatgtt tactgtcccc ggcagtagaa aggacgtcgg 180

ggaagcagcc	ccagcatcag	ggacaggcca	ggagtgcaga	atgcatggaagctggtcagg	240	
tcggagcctg	ggatgaagga	agcacagaga	tgcaaggggtg	ccagggccca	tggaaccaag	300
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atcagtcccc	atcctgccc	ccagggtgctt	acccacaccc	attcacctca	cagggtttccc	480
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ggggacagggt	gggagatgca	ggtagggtctg	actgtgcagg	gccatggtaa	gatgtgggct	1620
tctcggtcca	gggacagggg	tgccctcga				1680

<210> 218
 <211> 520
 <212> DNA
 <213> Homo sapiens

<400> 218						
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ttgggtgcagt	ggcccctggc	ctgggtattc	tatttaagcc	atgcaaaaac	ccattgggga	120
gaagagttaa	ggttttcctt	ccgcaggaaa	aaatgaggc	tcagagaggc	tatgagacat	180
gagacatgcc	aggtcacaca	gctggtagct	ggcaaagctg	actccaacct	gtgtctgagg	240
gactctgaaa	cctggttctg	gccccactc	tgggcagcct	gtcctctct	acaagccact	300
gcctgcagat	taagcagtc	tagcaaaggc	ctgggagcct	ccagagagt	cccctggctg	360
gcgagtggta	gagcagcctt	ggtttccttc	ctttgacct	caaggatcac	aggagtgtca	420
cccagaagta	acttaactta	tgagtgtttt	atgaacagga	aaagcaggaa	aaggggtaaa	480
gtcacatgat	ttcacaacca	aacagcctgt	aaactcgtgc			520

<210> 219
 <211> 1042
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (222)..(222)
 <223> n equals a,t,g, or c

<400> 219						
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tcctatgtaa	aatgctgatt	gcccttttct	gcatattatt	tcagatcttg	ttttctatac	120
ccacaaggat	tttctatata	tttctcataa	acaagagagt	ccacatattt	actacttacc	180
ttatgagtga	acaaaaaat	cacgattggg	ttcgcagaac	tncaaagtgtg	caccgtgtgt	240

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cccaagggtc	aaaatgtcct	ctggtgcttg	caattttctt	acagtatttt	tttctaattg	420
ataccaagct	gggactctcc	tggatatca	tatttgga	tgaaaagtga	aacaaatgag	480
aattttcctt	ttgcgttggt	gaatgcatac	agtgatttaa	gtttgggtgc	attttttca	540
gtctgttgat	tgttctagga	atcgatgctc	acagatcaat	gagtcatgtc	caatttcata	600
aacaactgcc	tggggtgagt	gtggcctcat	aaatgtgaac	aaatagtaat	ggagtggcaa	660
tcaaacctaa	agtgttactg	caaatcatgc	catgctgaaa	gaagaaacat	ctcaaaaaga	720
gaataaacat	ttttagggtc	gggtgtgggtg	gttcatgcct	ataatatcag	cactttggga	780
ggccaaggca	gaaggattgc	ttgaggctag	gagttggaga	ccagcctgag	taacatagtg	840
agacccagct	ccttacaaaa	aaaaaaaaaa	attaacaaag	gattgtgggtg	catgcctgta	900
gtcttagcta	ctcgggagggc	tgaggagggga	agacaacttt	aaccgggaggt	tcaagggttr	960
cagtgtctatg	attgcaccat	cgcgttccag	ccttggtgac	agagcaagac	tctgtctcaa	1020
aaaaaaaaaa	aaaaaactcg	aa				1042

<210> 220

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (536)..(536)

<223> n equals a,t,g, or c

<400> 220

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ctgtcccgtg	accaaactcc	tctctgtccc	cagctggact	cctctagatg	ctcagatgct	120
ccttctcttc	tttccttctc	tgtcacacca	ttcttctgtt	ccttggctct	tctgtctcatc	180
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ccagggttga	gggtggggcc	tttgctaggg	aaccaccctc	ttctaccag	tattttcctg	360
tctcctgtct	gtatcaatag	gtacacaata	twtattaaat	taatkaatga	ctatacatta	420
tgaaatggga	aatgcaagg	ataaaggaga	attgctgtcc	ttgaaaagaa	atttagtttg	480
tttttttgtt	gagatggagt	cttgctctaa	gctagagtgc	agaatgtaat	caaggn	536

<210> 221

<211> 796

<212> DNA

<213> Homo sapiens

<400> 221

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gaccargtag	agtgatgggt	tgtacagcac	tgttactcct	tttccatctc	tgtgtcccat	180
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gctaattttt	aaagtttttt	gtagagacag	ggtctcacta	tattgtgcat	tctggtcttg	660
aactcctgg	cccaagtgat	cttcctgcct	cggctttcca	aagtgtgga	attacaggca	720
tcaccccat	gcctagcctg	aaaattcttt	ctatgtcctt	aacatcttct	ttcccagtat	780
ttctccatcc	actcga					796

<210> 222
 <211> 1037
 <212> DNA
 <213> Homo sapiens

<400> 222
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 ttccaccttc ttgtggctgc tggcattctt tggcttgtgg tcacatcact cctatcttga 180
 aggcagacat cttcaaatct gtttcttctt cacatagcct tctgtgtgtg cagtgccctc 240
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 <212> DNA
 <213> Homo sapiens

<400> 223
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 <212> DNA
 <213> Homo sapiens

<400> 224

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 <211> 2128
 <212> DNA
 <213> Homo sapiens

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<211> 956
<212> DNA
<213> Homo sapiens

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<210> 227
<211> 742
<212> DNA
<213> Homo sapiens

<400> 227
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<210> 228
<211> 1298
<212> DNA
<213> Homo sapiens

<400> 228
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 <211> 748
 <212> DNA
 <213> Homo sapiens

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<210> 230
 <211> 297
 <212> DNA
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<400> 230						
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<210> 231
 <211> 699
 <212> DNA
 <213> Homo sapiens

<400> 231						
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<210> 232
 <211> 1894
 <212> DNA
 <213> Homo sapiens

<400> 232						
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<210> 233
 <211> 1355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1327)..(1327)
 <223> n equals a,t,g, or c

<400> 233
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 <223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <211> 2163
 <212> DNA
 <213> Homo sapiens

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<210> 238
 <211> 2087
 <212> DNA
 <213> Homo sapiens

<220>

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<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

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<210> 239
<211> 830
<212> DNA
<213> Homo sapiens

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<210> 240

<211> 1939

<212> DNA

<213> Homo sapiens

<400> 240

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<210> 241

<211> 1126

<212> DNA

<213> Homo sapiens

<400> 241

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<210> 242
 <211> 851
 <212> DNA
 <213> Homo sapiens

<400> 242						
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 <212> DNA
 <213> Homo sapiens

<400> 243						
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 <211> 2410
 <212> DNA
 <213> Homo sapiens

<400> 244						
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2410

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<211> 2131
<212> DNA
<213> Homo sapiens

<400> 245
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a a 2131

<210> 246
<211> 2406
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1934)..(1934)
<223> n equals a,t,g, or c

<400> 246
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<210> 247

<211> 1491

<212> DNA

<213> Homo sapiens

<400> 247

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<210> 248
 <211> 571
 <212> DNA
 <213> Homo sapiens

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 <221> misc_feature
 <222> (249)..(249)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (548)..(548)
 <223> n equals a,t,g, or c

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gcattggtcag	cgaccgcag
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	480
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	571

<210> 249
 <211> 2499
 <212> DNA
 <213> Homo sapiens

<400> 249	
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	gcattctgcca
	cgtgactgag
	ccgggcagt
	tcttcggggc
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	240
	300
	360
	420
	480

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<212> DNA
<213> Homo sapiens

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<211> 2527
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<213> Homo sapiens

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<211> 978

<212> DNA

<213> Homo sapiens

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aaaaaaaaaa	aaaaaaaa					978

<210> 255
 <211> 813
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (283)..(283)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (691)..(691)
 <223> n equals a,t,g, or c

<400> 255						
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aagctaacat	tgtgatacca	caaaaaatgg	aattgggaag	gcacaatcaa	gattaacaag	180
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tagtatctca	tgttggaag	gtgagagaga	aggccctcat	gcnttattaa	tggcatatgc	300
attgaagtgc	cctgtttgag	ggcatgctgt	tagtaacttt	taaaatatga	gatgtcatatc	360
tttttgactg	aaaataacaac	tcttgttagga	ttctatttta	tagaactact	taggtgcata	420
aataatacaaa	aataactgtc	attgcagcat	tatttgtaat	agtggaaaca	gaagactttt	480
cattaataaag	agaatggtta	ggccagatcc	agtggctcac	acctgtaatc	ccaacatttt	540
gggaatccaa	ggcaggagga	tcgcttttagc	ctaggagttag	gagaccagca	tgggcaacat	600
aacaagacct	tgtctctact	aaaaaaaaaat	aataataatt	agtctggcat	ggtggcacac	660
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<210> 256
 <211> 665
 <212> DNA
 <213> Homo sapiens

<400> 256						
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ttctttatga	agaagccaca	gcacccctaca	aggaagaaat	cgtgcatcag	ctgcccagta	180
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ttaatactta	aattgctaaa	gaataaataa	atctgacaaa	atgggtggat	atcttttaag	540
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aaaaaaaaaa	aaaactgtga	gggggggcyg	cggtagccaa	tcgccctatg	agtgaagtcgt	660
attac						665

<210> 257

<211> 1739
 <212> DNA
 <213> Homo sapiens

<400> 257
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 caacgaggac tttctgggaa tgctggtcca caccagggtc ctgctgaagg agacactgga 660
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 gacctgacta ggtcggctga aaaatgatta tcttaaagta taggtggaag gatacaaatg 780
 ctagaaagag ggaatcaaat cagccccgtt ttggagggtg ggggacagaa gatggggcta 840
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<210> 258
 <211> 1139
 <212> DNA
 <213> Homo sapiens

<400> 258
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 ccctcccgcc tccctgcccc tccagtaaac tcccacacaa aatagcagta tgaggtgtg 180
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<210> 259
 <211> 1677
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1012)..(1012)
 <223> n equals a,t,g, or c

<400> 259						
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tttaaaatta	atTTTTTgtg	gagatagggt	ctcatatgtt	gcccattgctg	gtctcaaaact	180
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<210> 260
 <211> 2648
 <212> DNA
 <213> Homo sapiens

<400> 260						
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cagcagcaaa	atacagtttg	gaacttaaat	aaactattga	tcaatttctg	gtcttatgct	300
agaaggaata	aagcatcaag	aaaaagaaaa	gatttgctgt	caagaccagg	aaaatttgac	360
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<210> 261

<211> 1084

<212> DNA

<213> Homo sapiens

<400> 261

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<210> 262

<211> 1217

<212> DNA

<213> Homo sapiens

<400> 262

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<210> 263

<211> 2072

<212> DNA

<213> Homo sapiens

<400> 263

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<211> 1539

<212> DNA

<213> Homo sapiens

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<212> DNA

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gtgttggaca	gtgtctgtcg	atcttcaggc	ctggaaagaa	atatcgtgtt	tggaatcaat	1020
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aaaagacatc	tgtatatctt	gaaggcttct	gtgtgacagg	aaaccacgc	ctaagaaaca	1140
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<210> 274
 <211> 1146
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (5)..(5)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (857)..(857)
 <223> n equals a,t,g, or c

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ctttgccgga	catttgga	aattttttaca	aacactaagg	taaaacctca	gttccaggag	660
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<210> 275
 <211> 1998
 <212> DNA

<213> Homo sapiens

<400> 275

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aatgagtact gtcacgtggc ttctgaaact gttacccag tttatgttcc caccaacagt      180
gtctaatttc catacctgtg ctaggtatta tgtctttaat ttttgtctga ttatttcatt      240
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atgtttcttt tgtgaattgc cttttcctat gctttgtgca tttttctctt ggggtttgtc      360
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gacgagttag tgggtgcagt gcagcagcat ggcacatgta tacatatgta actaacctgc     1920
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<210> 276

<211> 777

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (274)..(274)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (278)..(278)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (295)..(295)

<223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (676)..(676)
 <223> n equals a,t,g, or c

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 gaagaatggg ccagaccatg tgtgtgtgtg tatgtgtgtg cgtgtgtgtg tgtgtgcgca 180
 cttgggttta tttatatgag ccggtaaaaat ttcgttcacc attaatattat gttaatattac 240
 caacttctta aatgagaaca gtgagaattt tctncatngt taataatata ctggncagtg 300
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 ctgctttaag attttaatat atggatttat atataaaaaac tagttaagtc attggaaaag 420
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 atacggccag gcgcgatagc tcatgccttt aatcccagca ttttgggagg ccgaggaggg 660
 cagatcacct gaggtncagg agttcgagac cagcctggct aacatggtga aacctttt 720
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<210> 277
 <211> 600
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (553)..(553)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (560)..(560)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (589)..(589)
 <223> n equals a,t,g, or c

<400> 277
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 tccccagggt ccctggacaa cagtgggcct gtgctttaac ggacgtgcct tcgtcttgta 240
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 caacagctgg gggcctcat cgttctttgc cttcctgggc accatctgct acgctggaaa 360
 tacatatctc agttttawag catggagawc caggaccata cagtgtatta ccattttgat 420
 aattaaaagg aaaaaaaaaa gaagactctc actgtaaaaa cagctgtagg tataatgtat 480
 attcccagag aattgtattt aactaattaa tgttttttat atcttaaat ttgctcacia 540
 attgtgggtt gtnacaattt aactgggtta ctttatttgg caagtgttnt aggcttttaa 600

<210> 278
 <211> 970
 <212> DNA
 <213> Homo sapiens

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<400> 278
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ggaaaawggc agaggggtgaa gatgggggtgt ctgggtttggg gaccatcctg gcccccttg      180
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aaaacggcat ttcaggccag gcgtggtggc tcatgcctgt caccacagca ccttgggagg      720
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<210> 279
<211> 1388
<212> DNA
<213> Homo sapiens

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<400> 279
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catcatactt agattttatat taatatttct tttcaaaacta aattattcca aactgtgccc      180
tgagatacca tttggcctca agttcttttc tttcgtctgt attaaggtgc aaataaaaaa      240
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gactcatgag gacattggtg gctacagctg cttctggcac tgcccccca accccccagt      480
gaggtgaact tctttacaca tccagcaagc tttagttatc ttcttctccc atttgagata      540
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<210> 280
<211> 649
<212> DNA
<213> Homo sapiens

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<400> 280

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<210> 281
 <211> 1699
 <212> DNA
 <213> Homo sapiens

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 <221> misc_feature
 <222> (9)..(9)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1692)..(1692)
 <223> n equals a,t,g, or c

<400> 281						
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<210> 282
 <211> 1782
 <212> DNA
 <213> Homo sapiens

<400> 282
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<210> 283
 <211> 1205
 <212> DNA
 <213> Homo sapiens

<400> 283
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<211> 308

<212> DNA

<213> Homo sapiens

<400> 287

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<211> 1303

<212> DNA

<213> Homo sapiens

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<210> 292
 <211> 861
 <212> DNA
 <213> Homo sapiens

<400> 292						
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accacaggac	taactgactg	aaccacactc	caccatttgc	ccctatttcc	aggcggttatg	180

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atcttggct	ttaatgttca	tc	ctttaagct	tgcttctctc	ttcagactac	tgattcagcc	360
tcttgcattt	tctttcaact	tg	gggccaaaa	aaacaggcaa	cattttcttc	ctccactacc	420
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<210> 293
 <211> 587
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (587)..(587)
 <223> n equals a,t,g, or c

<400> 293	
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atagaccata	ccttaacaag
acagagggtc	ggattttggtc
ccaagactgg	ctccctacct
tgctctctgt	tattttgcat
tcttacattt	aatttaacaa
tctcaaatat	tgctaataagt
ttcagcaacc	agtttgagat
cagatcactg	gagttctagc
acacatgggt	aatatttttg
ctataaagag	acacatgggt
tctgctacat	gaaagcaacc
ttaaacttta	tttagaaata
ctagatgaag	gctctcttg
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tggtttaggt	gctgtgtctt
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587	

<210> 294
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 294	
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accttatcca	tgtggatttt
ctgtgcactt	tcttgatgat
gtaaagaagt	ataaaaagtct
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aactcga	
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240	
300	
360	
420	
477	

<210> 295
 <211> 1930

<212> DNA
<213> Homo sapiens

<400> 295

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aatcctcagc	caacttaaaa	acagtttgtt	gaccttggat	aagtcccata	gccggactgc	360
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aaaaactcga						1930

<210> 296
<211> 791
<212> DNA
<213> Homo sapiens

<400> 296

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cactgtatat	actgttattt	tgagagacaa	ttttgggaat	tttgccaagg	tattttcaat	660
tataggtctt	taatacatc	taagcaagtg	ggctcctaaa	atgggaattt	tacacacac	720
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aaaaaaaaaa a

791

<210> 297
<211> 2425
<212> DNA
<213> Homo sapiens

<400> 297

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gagtaagcca	gagcgggtgc	cagcgcggtg	tagccgcagc	cgccgctgtc	aggcgagca	180
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ccgctcggc	cagcccttcc	cgcgcggttc	cactgcctta	aggatgacag	tcgtagggaa	360
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tgggccagg	gtggaaggcg	tgacacacta	caaggccggc	gacctgttta	ttctgtatgt	480
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<210> 298
<211> 1543
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (76)..(76)

<223> n equals a,t,g, or c

<400> 298

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<210> 299

<211> 1021

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (248)..(248)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1004)..(1004)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1014)..(1014)

<223> n equals a,t,g, or c

<400> 299

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gcaaacgttg	gtctgaggct	tgagggatgg	agcaacattt	tcttggctgt	gtgaagcggg	360
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<210> 300

<211> 727

<212> DNA

<213> Homo sapiens

<400> 300

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<210> 301

<211> 2801

<212> DNA

<213> Homo sapiens

<400> 301

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<210> 302

<211> 1341

<212> DNA

<213> Homo sapiens

<400> 302

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<210> 303
 <211> 839
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<400> 303						
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tgggtgaccc	cagggccacc	cacagaactt	tctcaaagta	ttcactcctt	gttcctagag	180
gataataatt	ttctcaaacc	ctggtacctt	gacgtgacc	atttggaga	agaaacagcc	240
aaattcttca	ctcaagtaca	ccaagccatt	aaaacgttac	gagatgataa	aacagtactt	300
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agaggccgca	gctaccaccg	tcacaaagtt	cactcatctc	tgggtcccgg	tgaccccatc	720
cccccatacc	ctccatcctg	ggtcctgggg	ccccaaagct	ctgaggcccta	ggagactgcg	780
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<210> 304
 <211> 1022
 <212> DNA
 <213> Homo sapiens

<400> 304						
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agwgtaccaa	gaggctat	tagcctgcaa	aaccccaaag	aagactgttt	scctccagatt	240
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tc						1022

<210> 305
 <211> 1028

<212> DNA
 <213> Homo sapiens

<400> 305
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 acctggctgc tgcaggccaa ggccgctgtt cagtgaagag tcccatgttt agtatggact 540
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 agaaagatga tgacactaag ttgtgaaaat atgttgtgat ttttatgaaa taaactcacg 1020
 gcacgtag 1028

<210> 306
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 306
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 gttcaatcat tctcaaagag gctgtaagga tgattaaaat cctgaaggaa gccattgaag 120
 aaacttcctt ctgctctttc tggaggatct cttttcaatt atctattcat catatatctc 180
 ttatcttctg tgcacaattg acaactcttc tttacagcac attcctctty attcccctct 240
 cttggtttct gattgttctt ggggctgtgg ataaaaccat tctctgagaa gctgataagc 300
 aattggatga gaaagargga gargaaaact ggcaggarga tctggscca tgcccgcagc 360
 cagcacatct ctcttcagac ctggtgaccc cagccactgg gaacctggca ggcaccagct 420
 acagtgttgg acactgctcg tgccgaattc 450

<210> 307
 <211> 531
 <212> DNA
 <213> Homo sapiens

<400> 307
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 atgaaacttc tttacctgtt tcttgccatc cttctggcca tagaagaacc agtgatatca 180
 ggcaaacgcc acatccttct atgcatgggt aacagtggaa tttgtagggc ctcttgcaaa 240
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<210> 308
 <211> 808
 <212> DNA

<213> Homo sapiens

<400> 308

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cccaacctag	attcacatgg	actgaaatgt	gcattcttct	ctcatgggct	ggttatgggt	180
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caaagtgatc	tagaggcctt	ttataatgta	atcactgtat	gtgggtaccaa	tgaagtacga	420
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tcagcctgaa	aaaaatcttc	tatacagaaa	ctctccaaa	tactatatca	gtaatgtctg	600
aatgatttca	gatgtgaaaa	ttgacatatt	ttagttgaaa	tacctttctg	gactacagac	660
ttacatatca	tgtgaatact	tacctatttc	tacccgagtt	gcagcaagta	ttctgaaagc	720
ttaatgcaaa	taaatccac	tttagatctt	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	780
aaaaaaaaa	aaaaaaaaa	aaaaaac				808

<210> 309

<211> 1898

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1398)..(1398)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1428)..(1428)

<223> n equals a,t,g, or c

<400> 309

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gtgcccctgc	aaatcgata	catacatatg	tatatgagtt	tatatatctt	gttcgtgatt	240
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<210> 310
 <211> 813
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n equals a,t,g, or c

<400> 310						
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caggacaaa	aaaaaaaaaa	aaaaaaactc	gag			813

<210> 311
 <211> 703
 <212> DNA
 <213> Homo sapiens

<400> 311						
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gctgtttgca	cataaatgag	ggcctctgag	ttaggaaagg	tgggcacaaa	aatcttcatg	600
agcaataactt	cttagtagat	tgttttgtta	ttcaaatcaa	gttctagtgt	ttttatgtga	660
gattatataa	tttacagtgt	tgttttatat	acttttgaat	aaa		703

<210> 312
 <211> 848

<212> DNA

<213> Homo sapiens

<400> 312

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<210> 313

<211> 1061

<212> DNA

<213> Homo sapiens

<400> 313

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<210> 314

<211> 818

<212> DNA

<213> Homo sapiens

<400> 314

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<210> 315
 <211> 534
 <212> DNA
 <213> Homo sapiens

<400> 315						
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<210> 316
 <211> 1032
 <212> DNA
 <213> Homo sapiens

<400> 316						
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aaaaaaaaaa	ac					1032

<210> 317
 <211> 978
 <212> DNA
 <213> Homo sapiens

<400> 317						
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aaaaaaaaa	aaactcga					978

<210> 318
 <211> 1466
 <212> DNA
 <213> Homo sapiens

<400> 318						
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<210> 319
 <211> 1430
 <212> DNA
 <213> Homo sapiens

<400> 319						
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<210> 320

<211> 1499

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (52)..(52)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (66)..(66)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (84)..(84)

<223> n equals a,t,g, or c

<400> 320

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<210> 321
 <211> 549
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (474)..(474)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (484)..(484)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (528)..(528)
 <223> n equals a,t,g, or c

<400> 321						
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 <211> 904
 <212> DNA
 <213> Homo sapiens

<400> 322						
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aaaa						904
<210> 323						
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<212> DNA						
<213> Homo sapiens						
<220>						
<221> misc_feature						
<222> (760)..(760)						
<223> n equals a,t,g, or c						
<400> 323						
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<210> 324
 <211> 1481
 <212> DNA
 <213> Homo sapiens

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<211> 652
 <212> DNA
 <213> Homo sapiens

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 <211> 1711
 <212> DNA
 <213> Homo sapiens

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<210> 327
 <211> 2058
 <212> DNA
 <213> Homo sapiens

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<400> 327
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<210> 328
<211> 963
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (2)..(2)
<223> n equals a,t,g, or c

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gatctcccta gaggcagctg aagaggagaa gtcccgcatc agcctcatcc caccagaaga 240
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gaaacagctg ctgggatggg tatgccctt gtcactgtca cagctgccac cttccctact 360
ctctcatgtc ctcttagggc ctggcctgag gtggaggcgc cagaagctcc tgcattgccc 420
gtggtgacct aactccctga ggtgcccatg gagatgcctt tgggtctgcc cccagagctc 480

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agg						963

<210> 329
 <211> 1134
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1134)..(1134)
 <223> n equals a,t,g, or c

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<210> 330
 <211> 1991
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (300)..(300)
 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (353)..(353)
 <223> n equals a,t,g, or c

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 <213> Homo sapiens

<220>
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 <222> (1874)..(1874)
 <223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

<400> 332						
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<210> 333

<211> 1193

<212> DNA

<213> Homo sapiens

<400> 333

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<210> 334

<211> 868

<212> DNA

<213> Homo sapiens

<400> 334

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<210> 335
 <211> 853
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (75)..(75)
 <223> n equals a,t,g, or c

<400> 335						
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<210> 336
 <211> 2561
 <212> DNA
 <213> Homo sapiens

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<210> 337

<211> 1502

<212> DNA

<213> Homo sapiens

<400> 337

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<211> 2950

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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 <213> Homo sapiens

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<220>
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<220>
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<211> 801
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<220>
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 <223> n equals a,t,g, or c

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 <212> DNA
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<212> DNA

<213> Homo sapiens

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 <212> DNA
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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

<400> 353

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 <212> DNA
 <213> Homo sapiens

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<211> 1076

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

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<222> (1040)..(1040)

<223> n equals a,t,g, or c

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 <212> DNA
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 <212> DNA
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<210> 358
 <211> 1067
 <212> DNA
 <213> Homo sapiens

<400> 358						
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 <212> DNA
 <213> Homo sapiens

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<210> 360
 <211> 1086

<212> DNA
 <213> Homo sapiens

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atgggtgacc aggacttggt ccgagcacca gacgggaaga aaggggaggg aggaagacct      180
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<210> 361
 <211> 2078
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1177)..(1177)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1187)..(1187)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2057)..(2057)
 <223> n equals a,t,g, or c

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<400> 361
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gctgtgctgt gttggctgtg ttgggacact atgttccagg gattatgatt tcctacattg      180
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cyctgcatca caaacacgac aagaggaagc gtcaggggaa gaatgcaccc ccaggaggtg      360
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<210> 362

<211> 2494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (920)..(920)

<223> n equals a,t,g, or c

<400> 362

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<210> 363
 <211> 807
 <212> DNA
 <213> Homo sapiens

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<210> 364
 <211> 845
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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 <222> (4)..(5)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (823)..(823)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (845)..(845)
 <223> n equals a,t,g, or c

<400> 364
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 tccan 485

<210> 365
 <211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (566)..(566)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (680)..(680)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (684)..(684)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (703)..(703)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (715)..(715)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (717)..(717)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (731)..(731)
 <223> n equals a,t,g, or c

<400> 365
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<210> 366
 <211> 1145
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (410)..(410)
 <223> n equals a,t,g, or c

<400> 366
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<211> 1651

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<400> 368

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<400> 369
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<211> 2242

<212> DNA

<213> Homo sapiens

<400> 370

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<210> 371

<211> 2381

<212> DNA

<213> Homo sapiens

<400> 371

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<210> 372

<211> 2921

<212> DNA

<213> Homo sapiens

<400> 372

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<211> 1259

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (4)..(4)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (18)..(18)

<223> n equals a,t,g, or c

<400> 373

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 <211> 1314
 <212> DNA
 <213> Homo sapiens

<400> 374						
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 <211> 468
 <212> DNA
 <213> Homo sapiens

<400> 375						
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tggaaagtaat	tcgtctagga	cacagttatt	ttataaactg	ggaccggaag	atgtattaty	420
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<210> 376
 <211> 181
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (178)..(178)

<223> n equals a,t,g, or c

<400> 376

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<210> 377

<211> 612

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (47)..(47)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (534)..(534)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (537)..(537)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (563)..(563)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (565)..(565)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (591)..(591)

<223> n equals a,t,g, or c

<400> 377

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<210> 378
 <211> 1024
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (986)..(986)
 <223> n equals a,t,g, or c

<400> 378						
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<210> 379
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 379						
gacgcgtggg	agctcattat	ccatcaaact	cactcargtg	wcacytgagt	gagtttgatg	60
gataatgagc	taatgtgata	tctataggtc	acaatttttt	aaaacaaaaa	ttttcagtc	120
tgggataatc	tttcctaaat	gggatcaaat	gaaataatat	gtgtaaaaga	gtcaaataga	180
gtcctttacc	atagtaactg	cctatggacg	ttgtctttcc	cttacatgcc	tgccacact	240
taaccagatg	ttggttttca	agtctaattk	gtcattagtt	tcaccacatt	kgctcacttt	300
tkgtaacatt	tttgcaagat	ttgaaaactt	tcagtaaatg	ttttggcact	attggtaaaa	360
aaaaaa						366

<210> 380
 <211> 519
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (371)..(371)
 <223> n equals a,t,g, or c

<400> 380
 cctggttagg gtcctacagg gaaataaaaat tataaccgtg gaggtacatt tctctaccag 60
 aaagcaaaaa taaagcatca tgtcttaatg gttttctaca aatcaacttc taattctaca 120
 gagtccttaa tctgggccct attaaattct tggtcagaca aagttacatt tcccaagaga 180
 gtcagggtgac acttgagtga gtttgatgga taatgagcta atgtgatatc tatagggtcac 240
 aatttttttaa aacaaaaatt ttcaagtctg ggataatctt tcctaaatgg gatcaaatga 300
 aataatatgt gtaaaagagt caaatgcagt cttttaccat agtaactgcc tatggacggt 360
 gtctttccct nacatgcctg cctacactta accagatggt ggttttcat gtctaatttg 420
 tcattagttt caccacattt gctcactttt tgtaacattt ttgcaagatt tgaaaaacttt 480
 cagtaaatgt tttggcacta ttggtaaaaa aaaaaaaaaa 519

<210> 381
 <211> 1867
 <212> DNA
 <213> Homo sapiens

<400> 381
 cccacgcgtc cgggccaacag cagagacagt ggagggcagt ggagaggacc gcgctgtcct 60
 gctgtcacca agagctggag acaccatctc ccaccgagag tcatggcccc attggccctg 120
 cacctcctcg tctcgtcccc catcctcctc agcctggtgg cctcccagga ctggaaggct 180
 gaacgcagcc aagaccctt cgagaaatgc atgcaggatc ctgactaga gcagctgctc 240
 aaggtggtga cctgggggct caatcggacc ctgaagcccc agaggggtgat tgtggttggc 300
 gctggtgtgg ccgggctggt ggccgccaag gtgctcagcg atgctggaca caaggtcacc 360
 atcctggagg cagataacag gatcgggggc cgcattctca cctaccggga ccagaacacg 420
 ggctggattg ggagctggg agccatgcgc atgccagct ctacacaggat cctccacaag 480
 ctctgccagg gctggggct caacctgacc aagttcacc agtacgacaa gaacacgtgg 540
 acggaggtgc acgaagtga gctgcgcaac tatgtggtgg agaaggtgcc cgagaagctg 600
 ggctacgcct tgcgtcccca ggaaaagggc cactcgcccc agacatcta ccagatggct 660
 ctcaaccagg ccctcaaaga cctcaaggca ctgggctgca gaaaggcgat gaagaagttt 720
 gaaaggcaca cgctcttgga atatcttctc ggggagggga acctgagccg gccggccgtg 780
 cagcttcttg gagacgtgat gtccgaggat ggcttcttct atctcagctt cgcgaggcc 840
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 gacctgctgc cgcgcgcgt gctgagctcg ctgtccgggc ttgtgctgtt gaacgcgccc 960
 gtggtggcga tgaccagggt accgcacgat gtgcacgtgc agatcgagac ctctcccccg 1020
 gcgcggaatc tgaaggtgct gaaggccgac gtggtgtgc tgacggcgag cggaccggcg 1080
 gtgaagcgca tcaccttctc gccgcgcgtg ccccgccaca tgcaggaggc gctgcggagg 1140
 ctgcactacg tgccggccac caaggtgttc ctaagcttcc gcaggccctt ctggcgcgag 1200
 gagcacattg aaggcgccca ctcaaacacc gatcgcccgt cgcgcatgat tttctaccg 1260
 ccgcgcgcgc agggcgcgct gctgctggcc tcgtacacgt ggtcggacgc ggcggcagcg 1320
 ttgcgcgget tgagccggga agaggcgttg cgcttgccgc tcgacgacgt ggcggcattg 1380
 cacgggcctg tcgtgcgcca gctctgggac ggcaccggcg tcgtcaagcg ttgggcggag 1440
 gaccagcaca gccagggtgg ctttgtggtg cagccgcccg cgctctggca aaccgaaaag 1500
 gatgactgga cggtcctta tggccgcac tactttgccg gcgagcacac cgcctaccg 1560
 cacggctggg tggagacggc ggtcaagttg ctgcgcgccg ccatcaagat caacagccg 1620
 aaggggcctg catcgacac ggccagcccc gaggggcacg catctgacat ggaggggacg 1680
 gggcatgtgc atggggtggc cagcagcccc tcgcatgacc tggcaaagga agaaggcag 1740
 caccctccag tccaaggcca gttatctctc caaaacacga cccacacgag gacctgcac 1800
 taaagtattt tcggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
 aaaaaaa 1867

<210> 382

<211> 1722
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (401)..(401)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (695)..(695)
 <223> n equals a,t,g, or c

<400> 382
 gggaccgcg tgtcctgctg tcaccaagag ctggagacac catctcccac cgagagtcac 60
 ggccccattg gccctgcacc tcctcgtcct cgtccccatc ctctcagcc tgggtggcctc 120
 ccaggactgg aaggctgaac gcagccaaga ccccttcgag aaatgcatgc aggatcctga 180
 ctatgagcag ctgctcaagg tcaccatcct ggaggcagat aacaggatcg ggggccgcat 240
 cttcacctac cgggaccaga wyacgggctg gattggggag ctgggagcca tgcgcatgcc 300
 cagctctcac aggatcctcc acaagctctg ccagggcctg gggctcaacc tgaccaagtt 360
 caccagtac gacaagaaca cgtggacgga ggtgcacgaa ntgaagctgcgcaactatgt 420
 ggtggagaag gtgcccagaga agctgggcta cgccttgctg ccccaggaaa agggccactc 480
 gccgaagac atctaccaga tggctctcaa ccaggccctc aaagacctca aggcactggg 540
 ctgcagaaag gcgatgaaga agtttgaaag gcacacgctc ttggaatata ttctcgggga 600
 ggggaacctg agcgggccg cctgtcagct tctgggagac gtgatgtccg aggatggctt 660
 cttctatctc agcttcgccg aggcctccg ggccnacagc tgcctcagcg acagactcca 720
 gtacagccgc atcgtgggtg gctgggacct gctgccgcgc gcgctgctga gctcgtgtc 780
 cgggcttgtg ctgttgaacg cggccgtggg ggcatgacc caggaccgc acgatgtgca 840
 cgtgcagatc gagacctctc ccccggcgcg gaacttgaag gtgctgaagg ccgacgtggt 900
 gctgctgacg gcgagcggac cggcggtgaa gcgcatcacc ttctcgccgc gctgccccgc 960
 cacatgcagg aggcgctgcg gaggctgcac tacgtgccg ccaccaaggt gttcctaagc 1020
 ttccgcaggc ctttctggcg cgaggagcac attgaaggcg gccactcaa caccgatcgc 1080
 ccgtcgcgca tgattttcta cccgccgcgc cgcgaggcg cgctgctgct ggcctcgtac 1140
 acgtggtcgc acgcggcggc agcgttcgcc ggcttgagcc ggggaagaggc gttgcgcttg 1200
 gcgctcgacg acgtggcggc attgcacggg cctgtcgtg gccagctctg ggacggcacc 1260
 ggctcgtcta agcgttgggc ggaggaccag cacagccagg gtggctttgt ggtacagmcg 1320
 ccggcgctct ggcataaccga aaaggatgac tggacggtcc cttatggccg catctacttt 1380
 gccggcgagc acaccgccta cccgcacggc tgggtggaga cggcggtcaa gtcggcgctg 1440
 cgcgccgcca tcaagatcaa cagccggaag gggcctgcat cggacacggc cagccccgag 1500
 gggcacgcat ctgacatgga ggggcagggg catgtgcatg ggggtggccag cagcccctcg 1560
 catgacctgg caaaggaaga aggcagccac cctccagtc aaggccagtt atctctccaa 1620
 aacacgaccc acacgaggac ctgcgattaa agtattttcg gaaaaaaaaa aaaaaaaaaa 1680
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcgcg cc 1722

<210> 383
 <211> 2042
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2001)..(2001)
 <223> n equals a,t,g, or c

<400> 383
 ggtcagcttt catctcgtcc tatctttggt caggcaaaact tctctagttc tgttttaata 60

ggcatattttg	ttaggtctgt	tttttgaat	cctctttttt	acattgttta	aagataatgc	120
cttggctaaa	aagcctgctt	cacttttccc	tgtttttagt	tgttttctcc	acattggcag	180
taaagagcct	tggcgtccca	gtagcagag	gttctccttt	ttgtattgtg	gatgttttgc	240
atttcatact	gttgtgaaga	gtggctttga	tcatacatgt	tgttgggtata	tttgccyttt	300
tgctgggggt	gtgagaagaa	ccagagatga	gcagaggtac	acccagtaga	cttcccagcc	360
tgcagagcct	cccgggaaga	gcttccgtgt	tcaggtgctt	ggggcccccw	cctaggagc	420
tgwctcwag	tcagagcwgg	gtcccggctt	gygttcagga	ttttgaaaca	tttgtagwgt	480
gattttgttg	tttctacacc	tttctcctca	tctttttttt	ttttagttag	atcgttacta	540
ataacagaaa	agacattttt	ggcatggtaa	ttggcacaaa	gtgaataatt	gttgaataga	600
tgacttttga	ggcttttcaa	attcgagtgt	ccataaaaatc	catccagagc	cacctgggtc	660
ctttttttga	accacttaac	gtaattctgg	aaaaccttga	ctgtgggtct	taagtttggg	720
ggattgtctg	ttctcactgg	ctgacctttg	gaggtcgcat	atttcaggat	gtgattccac	780
ttaggtctca	tttcacctga	cactgcaatt	ctgtgccttc	agagggattt	gtattgcca	840
atgatgtgga	caacaagcgc	tgctacctgc	tcgtccatca	agccaagagg	ctgagcagcc	900
cctgcatcat	ggtggtcaac	catgatgcct	ccagcatacc	caggctccag	atagatgtgg	960
acggcaggaa	agagatcctc	ttctatgata	gaattttatg	tgatgtccct	tgagtgagg	1020
acggcactat	gagaaaaaac	attgatgttt	ggaaaaagtg	gaccacctta	aatagcttgc	1080
agctacatgg	cttacagctg	cggattgcaa	cacgcggggc	tgaacagctg	gctgaagggt	1140
gaaggatggt	gtattccacg	tgttcactaa	accctattga	ggatgaagca	gtcatagcat	1200
ctttactgga	aaaaagtga	ggtgcttttg	agcttgctga	tgtgtctat	gaactgccag	1260
ggctgaagtg	gatgcctgga	atcacacagt	ggaaggtaat	gacgaaagat	gggcagtggg	1320
ttacagactg	ggacgctggt	cctcacagca	gacacaccca	gatccgacct	accatgttcc	1380
ctccgaagga	cccagaaaag	ctgcaggcca	tgccacctga	gcgatgcctt	aggatattac	1440
cccatcatca	gaatactgga	gggttttttg	tggcagtatt	ggtgaaaaaa	tcttcaatgc	1500
cgtggaataa	acgtcagcca	aagcttcagg	gtaaatctgc	agagaccaga	gaaagcacac	1560
agctgagccc	tgagatctc	acagaaggga	aaccacacaga	tccctctaag	ctggaaagtc	1620
cgtcattcac	aggaactggt	gacacagaaa	tagctcatgc	aatgaggat	ttagagaata	1680
atggcagtaa	gaaagatggc	gtgtgtgggc	ctcctccatc	aaagaaaatg	aagttatttg	1740
gatttaaaga	agatccattt	gtattttatt	ctgaagatga	cccattattt	ccacctattg	1800
agtaaggatt	cagccttttt	aattattcat	ttaaagaaat	ttactataga	gtatcaaag	1860
tacaactgat	cacatgtaac	cattgttttg	tatgtagtgc	tgtctagctt	tttttttttt	1920
ttaacctttt	taactgcata	ttagagcagg	atgaaacttt	agaggttact	caatctttta	1980
atttaaggag	aaagtaaaca	nttactttgt	gaacatgata	gataaaaaaa	aactggaccg	2040
gg						2042

<210> 384
 <211> 308
 <212> DNA
 <213> Homo sapiens

ggaggcagga	ccttgtccta	ttcattaatc	ttgcccctca	acagttattt	tcagaggggc	60
aagaagtgtt	tcagggttct	tggcccttgt	ttgaccagtc	gtcctaacc	tcrtgtcttg	120
ggtcattgtt	gttrtaatct	ggggttacct	tttggaagg	catgggggtac	ccttttgcaa	180
aagttatggg	ccctmtcctt	ggaaactgca	cacacaccat	gcagcttaca	attcaggag	240
ttcacaggtc	tacagaatcc	tgggaaactc	tccatgtccg	gttctaattc	attgtagctt	300
cagtggga						308

<210> 385
 <211> 1568
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1550)..(1550)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1564)..(1564)
 <223> n equals a,t,g, or c

<400> 385
 ctcatcagcc ctatgaggta gggaggtagg tattattatc acccttggtta gtttttttgt 60
 tttgttttgt tttccagatg agagaatcat tgctcacaga agtgaagtaa cttttccaag 120
 gtcatacaat cagtaagtgg caggcaagga ctgaaatcca agttgttacc ctccaaagtc 180
 cctgctctga gaactggagg aattcttatt caaatctaaa atcctctttt agscctgtct 240
 gctttaatat tccggtcttt attgatcctt ctcttctcta aamcttcagc tgtcagtata 300
 aaaatcaagg aatttagcmc ttgttattgt gtgamcagct tcttgtctct cctgtactgt 360
 aagtgggtct agggattttt attctttaaa tatccccctg tactcagtag atctttgga 420
 gamcaagctc ataggcttct aataattctt tctttgactg ccagctgaat tagacagaag 480
 gtaagtccctg ctgccgtgct gtgcctaacc ccattcttat ttcctgtgct gttagagaac 540
 agtcttttct tggctggaac aaatactaca gcctgctcaa ctagctaata tgtattgagt 600
 tcttartatg ttccaaggac tgcctaaagt attttatata tattaactca ctgaatctta 660
 aataccctat gagctaagtc ctatttttat cccattttta caaaagagga aactgaatgt 720
 accagtgcat cagtatttga ctgagtaa atgaatgactgc tttgctgatg gatagtatta 780
 ttagcaacaa cctacaaat atgatgttat gtttgcatca tgcagtacag cttatgtac 840
 cttatgtcat tgtcactcat gattagcaaa taggcacgaa catccctatt ttatagaaga 900
 ggaamccatg gctctaagag ggtgagtgat tctcaacagt cacatgccat ctgtatcctt 960
 cagtaaacaa ggtatttggg ccattccagg atcgggggca agagagatgg gagggcctcg 1020
 gtgagaaaca ctcatattca caaaaggtag tagatagata gacagataaa taaataaata 1080
 gagataaaaag ctagtaatat cagagatttg atgggaattc agatctttga ttcctagtcc 1140
 agtgctcttt cttttatgta aggtgatggg aagcaagtct taggtccaga tctggcagct 1200
 gctttgattt aggatcttaa gccagaagca gcagcgccct aaacaaaag catcatttta 1260
 acttctctgc atttctcaca ttctcaacaa tgaccatgcc ctactttcat aattaaaaac 1320
 aaacaaataa acagaggggg caaaatgcat ccttctgagt gggctggggc ttgtagaggg 1380
 attcttggg ttgctctggg atgtctttgg gccctgcac ttgtgggcac tctgatttat 1440
 cccacaggg cacctggccc accttatggg ctgaggaggg cttgatgggc ggagggaagc 1500
 agagctgagg agctggggag gagctggaaa ggactgctag aagggttccan tgaagctaca 1560
 atngntag 1568

<210> 386
 <211> 865
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n equals a,t,g, or c

<400> 386
 accgcagcct gcngggctcn agcattccty tsgeytcagc ctctgakta gctgggaccm 60
 cagytccact aattttgaag ttttttgggt agacatgaag tctccctgtg ttgcccgggc 120
 tggctcaaaa ctctgacct caagcagtc tctgtcttg gcctctggaa atgctgggat 180
 tacaggcgtg agccactgtg ctggcctctt ttttcttttt cttttttttt aagggtttta 240
 tttgttaaat gggaagtctg tgccatcaac tgagcattgtattttctct tagtaagagc 300
 ctgggtgggc cactgggaga gaactataca ttaaatgtaa gtagcctctg ggtagagagc 360

ccctggctgg	tttcctttcc	tttctctcct	tttctctact	ttgggtgtctg	gaggcatttc	420
ccagactcca	gtttcttacc	accctcacgg	atTTtgctat	tgtattatca	cctcctttat	480
cattcccaaa	attgacttta	tggagactca	ttaaaagaaa	gaatcatcgg	ccgggagcgt	540
kgctcacgcc	acgaaggcgg	gcgaatcacc	tgaggtgcgg	agttcgtgac	cagcctgacc	600
aaaacagaga	aaccccatct	ctactaaaca	atacaaaatt	agctgggcgt	ggtggtgcac	660
gcctgtaatc	ccagctactg	gggaggctgg	gacggagaa	tcacttgaac	ccgggaggca	720
gaggttgag	tgaccaaaga	tgcactatt	gcactccagc	ctgggcaaca	agagcaaac	780
tctatctcaa	aaaaaaaaaa	aaaaaaaaaa	aaaagggcgg	ccgctctaga	ggatccctcg	840
aggggccccaa	gcttaggcgt	gcatg				86

<210> 387
 <211> 1687
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1568)..(1568)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1652)..(1652)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1654)..(1654)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1660)..(1661)
 <223> n equals a,t,g, or c

<400> 387						
ccacgcgtcc	gggcagtgagg	gtgagggcac	acaagcagtt	caggggtccca	gcaggaagtg	60
gggctgcagg	gccgggggtgg	gtcctggggc	tggccatcag	gcagctagc	aggttgttct	120
gggcatggag	ggggcctggg	gtggctgagg	gcatgcccag	ggctccctgg	aggatcccgc	180
tctgtgccct	gcccaccctg	tgccctgggga	gccctctgcc	ctcacagccc	acccacccca	240
ttttctatga	ccacagagct	ccgacctgga	agatgggtca	cccaggaggt	cccaggagct	300
ctcactcccc	caggggacct	ggaggacacc	cagctctcag	acaaaggctg	ccttgccggc	360
ggggggagcc	cgaacagacc	ctttgcagct	ctgcaccagg	agcaggtttt	gcggaacccc	420
catgtaaggc	ttccccgggg	tggggtcctc	ccagccgtgg	gcctcagggt	gaccgatcac	480
agggagagtg	gtcctctgcc	ctgggcaccc	cctgcggtgg	ccccgacgac	agctgaggag	540
tgaccacaag	gtctctgccc	acagtgtctg	gggtgcgtg	tctgggctgc	gaagtggatc	600
cccctccttt	cttgggcact	gcagcagctt	ggggggcttt	ttggacgtgg	atgtgcctgg	660
tcttggtttc	ccgagggcct	ttacagtgga	tgaggaggtg	aacacaggga	gtcctgagag	720
caagcaccac	ctcgggcttt	ggtgtagaaa	caatggccc	gacccaggc	cggagccgtg	780
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ccaggggtac	aggcagggtcc	cacagggaga	gcttggcgct	gagctgaggc	tgtctgggct	900
cctgcctctc	caaccagtct	gcagttacag	gggcagtg	atgggcgggt	gagaaggacg	960
ggttccctca	ggggagccgg	ccggagcccg	agccttcccc	cttctccagg	acgcaggcct	1020
gagcagcggg	gagccgccc	agaaggagcg	gcggcgccctc	aaagagagtt	ttgagaacta	1080
ccgcaggaag	cgcgccctca	ggaagatgca	gaaaggatgg	cggcagggtg	gaggaggacc	1140
gggagaacac	cacgggcagc	gacaacaccg	acactgaggg	ctcctagccg	cagcagccgc	1200
aggccccgac	cagggcacac	ccaccggccc	ggcctcctgc	caccggggg	tgccgacgcc	1260

ctggggcgca	gacttccccg	agccgtcgct	gacttggcct	ggaacgagga	atctggtgcc	1320
ctgaaaggcc	cagccggact	gccgggcatt	ggggccgttt	gttaagcggc	actcattttg	1380
cggaggccat	gcgggtgctc	accaccccc	tgcacacgcc	atctgtgtaa	cttcaggatc	1440
tgtttctgtt	caccatgtaa	cacacaatac	atgcatgcat	tgtattagtg	ttagaaaaca	1500
cagctgcgta	aataaacagc	acgggtgacc	cgcaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1560
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1620
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	ananaaaaan	naaaaaaaa	aaaaaaaaaa	1680
aaaaaaa						1687

```
<220>  
<221> misc_feature  
<222> (5)..(5)  
<223> n equals a,t,g, or c
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```
<220>
<221> misc_feature
<222> (496)..(496)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (531)..(531)
<223> n equals a,t,g, or c
```

```
<210> 389
<211> 1752
<212> DNA
<213> Homo sapiens
```

<221> misc_feature
 <222> (1099)..(1099)
 <223> n equals a,t,g, or c

<400> 389
 aaggtacgcc tgcaggtacc ggtccggaat tcccgggtcg acccacgcgt ccgtccagga 60
 cagagagtgc acaaaactacc cagcacagcc ccctccgccc cctctggagg ctgaagaggg 120
 attccagccc ctgccaccca cagacacggg ctgactgggg tgtctgcccc ccttgggggg 180
 gggcagcaca gggcctcagg cctgggtgcc acctggcacc tagaagatgc ctgtgccctg 240
 gttcttgctg tccttggcac tgggcccgaag cccagtgggtc ctttctctgg agaggcttgt 300
 ggggcctcag gacgctaccc actgctctcc gggcctctcc tgccgcctct gggacagtga 360
 catactctgc ctgcctgggg acatcgtgcc tgctcgggc cccgtgctgg cgcctacgca 420
 cctgcagaca gagctggtgc tgaggtgcca gaaggagacc gactgtgacc tctgtctgcg 480
 tgtggmtgtc cacttggccg tgcatgggca ctgggaagag cctgaagatg aggaaaagtt 540
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<210> 390
 <211> 536
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (508)..(508)
 <223> n equals a,t,g, or c

<400> 390
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 tattgatata atttcaactc taaaatggat ttgaagaaat gcaactttat atcaaaaaat 180
 gtcactctgat ttcttttgtt tcttttttaa attatgtaat cagatgattt tatgtttttt 240
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 atgtttcttt tttgtgttca gtgtttcaaa tacaatttgt atttaagggt tttaaaatac 360
 caaactgtaa ctgagtacag tggatcgttt tctgttagga tgtaaatatt atacaatgaa 420
 atctataaag tgttgtcaat ttgattattg acacatataa catgtttaca aataaactgt 480
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<210> 391
 <211> 716
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (630)..(630)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (710)..(710)
 <223> n equals a,t,g, or c

<400> 391
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 cctccagccc tttgtcgggg gcactatttn cctcctgaag gatggcttga mccgagtsgg 660
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<210> 392
 <211> 2716
 <212> DNA
 <213> Homo sapiens

<400> 392
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<210> 393
<211> 2409
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (694)..(694)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (716)..(716)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (755)..(755)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (761)..(761)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (791)..(791)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature

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<222> (808)..(808)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (880)..(880)
 <223> n equals a,t,g, or c

<400> 393

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<210> 394
 <211> 737
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (369)..(369)
 <223> n equals a,t,g, or c

<400> 394
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 aaaaaaaang tcaataaaga tacaacgatt gttttggaaa atctgcagcc cgtggattcc 420
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 ccaccaggg acctaata 737

<210> 395
 <211> 1471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (798)..(798)
 <223> n equals a,t,g, or c

<400> 395
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<210> 396
 <211> 3302
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3274)..(3274)
 <223> n equals a,t,g, or c

<400> 396						
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taatgttaag	aaaaatttga	aagcttttga	aaaccaaatt	tgtaatatca	ttgtattttt	3240
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aa						3302

<210> 397
 <211> 2227
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (289)..(289)
 <223> n equals a,t,g, or c

<400> 397	
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cgtaggctca	gatcttcatt
ctttcggtag	ctggagtaac
cacatctgca	gccagcgtaa
acgtggggar	ggcctgacar
aacgctagac	agatggggaa
cctcaaaaac	gtttttattt
tttttctaaca	aataacatga
tagaaagaaa	aattacccat
gttgggtgag	gccgtagcct
gcagggttgt	ttttttttct
ggtggtgtaa	acagctcact
gcctcctgag	tagctgggat
gtcttgatat	gcgaggacgc
agacccttgc	tccatcaccc
tcgaccctca	ggctcaagcg
cgagagtcac	catgctggcc
tarccatssc	tgtttcaaga
gaccctcggc	tgtgagaggg
gtcacaagcc	catctggctg
ggccccaca	ccagagcgga
ggragaagaa	gggcccaggc
tyagcagggg	ctyarccagg
gttcttcgca	ctcccaccgt
tgggctccat	cagggagccc
cggtcccggt	aaatggggg
ggttcctgtg	gtgagagag
ctctccagcg	ccttccaagg
agatgcctcc	tcaaggccnt
ggctgtcccc	acccttgrag
cttgaaaagg	agacacctca
ctgaaaagg	ttaaataattc
taaaggcttt	ttgaaaatta
aaaacacaaa	gtattcaaaa
tccattgcgg	tgcttttgga
gtggtggctg	tggcattcct
gtgcacccca	gctggaatgt
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ccttgaggct	ccctgtccat
agtcaccaca	gttccctgcag
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cggttgaagt	gtcacttact
tctgycgtct	acctggcctg
gaacctraag	ccctcgtgat
gagctgcaca	tgccccaggt
ttccacggac	ggcttccagg
cagagcctgg	ggtcaggggc
cccgmagccc	tgkgtcttt
ccacctgcgc	ctccctgtgc
aaattgggtc	cctacatgcc

attctgcttg	caaaaaaatc	tatcatgtgc	ttttctagat	gtctctgggt	ctatagtgc	2040
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catgtgcctt	acttttttaa	aaaggagttt	attgtattca	ttggaatatgt	gacgtaagc	2160
aataaaggga	atgttagacg	tgtaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaag	2214

<210> 399
 <211> 1145
 <212> DNA
 <213> Homo sapiens

<400> 399						
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tgcagaactg	atgtggctca	ggcaccctgg	ttttaattcc	ttgaggatct	ggcaattggc	180
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aatttgtaat	ttgtttttct	ctagtttgag	cagggtctga	attttttca	ttatttcctt	300
ttttgccagc	agacagactt	gagtctgtaa	agacaagcaa	atacactgac	agaagtttac	360
catagtttct	aaaatgtaaa	aaagaaaacc	cccaaaaagac	tcaagaaaat	tagaccacaa	420
attttgcatt	gttcattgta	gcactattgg	taataaaaata	acaaatgttt	gtgcattttt	480
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tgagcttcat	ctttccagaa	tgagcaaaaac	actgtccagt	cttgttacg	attttgtaat	720
aaatgtgtac	atttttttta	aatttttgga	catcacatga	ataaagggtat	gtatgtacga	780
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aggggacttt	gtcgccctgt	gcactaaaag	ggccagattt	tcagcagcca	aggacatcca	960
taccaagtgt	aatgtgatgg	gacttaaaaag	aagtgaactg	agacaattca	ctctggctgt	1020
ttgaacagca	gcgtttcata	ggaagagaaa	aaaagatcaa	tcttgtattt	tctgaccaca	1080
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aaaaa						1145

<210> 400
 <211> 717
 <212> DNA
 <213> Homo sapiens

<400> 400						
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cgcccagtc	tgacctgcg	cccccaactc	ctccccgtcc	atctgtgtgt	gctgtgtgtg	120
ctcagtgcgg	cggtgtgccg	ggctgaggct	gggtctgaaa	ccgaaagtcc	cgcccgacc	180
ctccaagtgg	agaccctggt	ggagccccca	gaaccatgtg	ccgagcccg	tgcttttgga	240
gacacgcttc	acatacacta	cacgggaagc	ttggtagtg	gacgtattat	tgacacctcc	300
ctgaccagag	accctctggt	tatagaactt	ggccaaaagc	aggtgattcc	aggtctggag	360
cagagtcttc	tcgacatgtg	tgtgggagag	aagcgaagg	caatcattcc	ttctcacttg	420
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cctctggtag	ggatggccat	ggtgccagcc	ctcctggggc	tcattgggta	tcacctatac	600
agaaaggcca	atagacccaa	agtctccaaa	aagaagctca	aggaagagaa	acgaaacaag	660
agcaaaaaga	aataataaat	aataaatttt	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	717

<210> 401
 <211> 713
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (27)..(27)
 <223> n equals a,t,g, or c

<400> 401
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 ctgccccgcg cccagtcattg accctgcgcc cctcactcct cccgctccat ctgctgctgc 120
 tgctgctgct cagtgcggcg gtgtgccggg ctgaggctgg gctcgaaacc gaaagtccc 180
 tccggaccct ccaagtggag accctgggtg agccccaga accatgtgcc gagcccgctg 240
 cttttggaga cagccttcac atacactaca ggggaagctt ggtagatgga cgtattattg 300
 acacctccct gaccagagac cctctgggta tagaacttgg ccaaaagcag gtgattccag 360
 gtctggagca gagtcttctc gacatgtgtg tgggagagaa gcgaaggga atcattcctt 420
 ctcaattggc ctatggaaaa cggggatttc caccatctgt cccagcggat gcagtgggtg 480
 agtatgacgt ggagctgatt gcactaatcc gagccaacta ctggctaaag ctgggtgaagg 540
 gcattttgcc tctggtaggg atggccatgg tgccaccctc ctgggcctca ttgggtatca 600
 cctatacaga aaggccaata gacccaaagt ctccaaaaag aagctcaagg aagagaaacg 660
 aaacaagagc aaaaagaagt aataaadaat aaattttaaa aaacttaaaa aaa 713

<210> 402
 <211> 802
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (337)..(337)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (359)..(359)
 <223> n equals a,t,g, or c

<400> 402
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 ggattggcag aagcctgtac tcctcgtgaa gtcaacttgc tgaaagggat cataggtctc 180
 atgagcagac tgtcaccgga tgagatccta ggcttgctga gcctccaagt actgcatgaa 240
 gaaacaagtg gctgcaagga ggaagttaaa cccttctcag gcaccacccc atccaggaaa 300
 ccactcccca agagggaaga acacgtggaa yttcctngaa atgcsctac atgggtgrtg 360
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 ctgccaytac tgtaacttgg aactggacat cagggatgat ccctgctgtt ctttctagt 480
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 tgaagaaagc tctctgtccc ctggactgcc tgtgtggagg gtaatgaact gggtccttta 600
 aggaatggca cctgggtgcc cagaggcatg gccagaaggt gtctgtgggg gccatgcctt 660
 aggggggatgc acccagggcg gctgagagag caactgcagg agtttccctt aaaatctctc 720
 ctccagatcg ttctcgaact ttccccacta cttccataat aaaatgtata cttgttgaaa 780
 aaaaaaaaaa aaaaaactcg ag 802

<210> 403
 <211> 1186
 <212> DNA
 <213> Homo sapiens

<400> 403
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 ggtagggggg ttgtccctgg aattctggga cactggctgg ggtttgagga gagaagccag 120

tacctacctg	gctgcaggat	gaagctggcc	agtggcttct	tggttttgtg	gctcagcctt	180
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<210> 404
 <211> 470
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (444)..(444)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (458)..(458)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (469)..(470)
 <223> n equals a,t,g, or c

<400> 404						
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ccagcccacc	ctgcaaggct	cctaccacct	ggacccgcag	tagccctcct	actgctccgg	120
gggagctgca	gtctctgttg	ctgcc a caa	cgcataaagg	cgagctgcaa	agccatgcc	180
tctgcaggct	ccaatgtacc	atagatgact	cctcctcttc	ctcctcctcc	agcctggctt	240
ggagcagcta	gatgggcaaa	gctagaaaa	cctaaaacgg	gatgcaggga	gtggtagcat	300
tagagcctca	ccttgtcacg	ctggccactg	gggtggcagg	accagtttca	gcaa a ggac	360
tcacaccac	cctccaaagt	ccagcctctm	mttctggcaa	aagctggcca	ggaactgggg	420
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<210> 405
 <211> 1821
 <212> DNA
 <213> Homo sapiens

<400> 405						
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acccagctac	cttatgaata	ctattcactg	cccttctgcc	agcccagcaa	gataaactac	240
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cacctcattg	ctgacaacct	gcctgtggcc	acccggctgg	agctctactc	caaccgagac	480
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acaagtgact	gcagcgccaa	gcggcatcca	ccaagcatca	agttggagaa	aagggaaccc	1560
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aaaaaaaaactc	gagggggggc	c				1821

<210> 406
 <211> 1094
 <212> DNA
 <213> Homo sapiens

<400> 406						
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aaaaaaaaaaaa	aaaa					1094

<210> 407

<211> 1932
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (293)..(293)
 <223> n equals a,t,g, or c

<400> 407

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aaccggttgc	aggcgggtga	gggaggggaa	gtggtgcttc	cagcgtggta	cancttgac	300
ggggaggtgt	cttcatccca	gccatgggag	gtgccctttg	tgatgtggtt	cttcaaacag	360
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gtatccttgg	tctactccat	gccctcccgc	aacctgtccc	tgcggtgga	gggtctccag	480
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aggagtaagc	ccgtgtcca	ataccagtg	gatcggcagc	ttccatcctt	ccagactttc	720
tttgaccag	cattagatgt	catccgtggg	tctttaagcc	tcaccaacct	ttcgtcttcc	780
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cgctggaagt	gagcacagg	cctggagctg	cagtggttgc	tgagctgtt	gtgggtaccc	900
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tgaggagcc	agccaatgat	atcaaggagg	atgccattgc	tcaccggacc	ctgccctggc	1020
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gatataacct	gtcaggctgg	cttgggttagg	ttttactggg	gcagaggata	gggaatctct	1740
tattaaaact	aacatgaaat	atgtgttgtt	ttcatttgca	aatttaaata	aagatacata	1800
atgtttgtat	garaaaaaaa	aaaaaaaaaa	aaaggggcg	gccgctctag	aggatccctc	1860
gaggggcccc	agcttacgcg	tgcattgcgac	gtcatagctc	tctccctata	gtgagtcgta	1920
ttataagcta	gg					1932

<210> 408
 <211> 711
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (345)..(345)
 <223> n equals a,t,g, or c

<400> 408

ggcacgagcg	aagaccctgt	tcggaccctg	ccccgattcc	agactcaggt	agatcgtcgg	60
cataccctct	accgtggaca	ccaggcagcc	ctggggctga	tgagagaga	tcaggtatcc	120

cccagggagt	aggggctacc	ttgaggggat	gatagacctc	ccccactccc	agtgkkaactc	180
tggaatatg	aaggaactag	ggagtgggaag	agatttcaga	gctggggaga	ggagttcctc	240
ccttcaaagc	cagcaactgc	ctttggggaa	tgtcgggggg	tctctccttt	ctcctgcttg	300
tttragggtg	tacacagtcc	ccccctcamc	tggsgggaag	ctgtncggga	caractcatc	360
tcagctttcc	cttggggcag	gatcgggggc	agcagctcca	gcagaaacag	caggatctgg	420
agcaggaagg	cctcgaggcc	acacaggggc	tgtcggccgg	cgagtgggcc	ccaccctctc	480
ggragctggg	cagcctcttc	caggccttcg	tgaagaggga	gagccaggct	tatgcgtaag	540
cttcatagct	tctgctggcc	tggggtggac	ccaggacccc	tggggcctgg	gtgccctgag	600
tggtggtaaa	gtggagcaat	cccttcacgc	tccttggcca	tgttctgagc	ggccagcttg	660
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<210> 409

<211> 973

<212> DNA

<213> Homo sapiens

<400> 409

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ctggccccac	ggggcattgc	tcttctctctg	gctcttctcc	ccacccttgg	gggcccgttg	180
aggtggagtg	gccgtgacgt	ctgcggccgg	agggggctcc	ccgccggcca	cctcctgccc	240
cgtggcctgc	tcttcgacga	accaggccag	ccgggtgatc	tgcacacgga	gagacctggc	300
cgagggtccca	gccagcatcc	cgggtcaacac	gcggtacctg	aacctgcaag	agaacggcat	360
ccaggtgatc	cggacggaca	cgttcaagca	cctgcggcac	ctggagattc	tgcagtgg	420
caagaacctg	gtgcgcaaga	tcgaggtggg	cgccctcaac	gggctgcca	gcctcaacac	480
gctggagctt	tttgacaacc	ggctgaccac	gggtgccacg	caggccttcg	agtacctgtc	540
caagctgcgg	gagctctggc	tgcggaacaa	ccccatcgag	agcatcccct	cctacgcctt	600
caaccgcgtg	ccctcgctgc	ggcgcctgga	cctgggcgag	ctcaagcggc	tggaatacat	660
ctcggaggcg	gccttcgagg	ggctggtcaa	cctgcgctac	ctcaacctgg	gcatgtgcaa	720
cctcaaggac	atccccaaac	tgacggccct	ggtgcgcctg	gaggagctgg	agctgtcggg	780
caaccggctg	gacctgatcc	gcccgggctc	cttcagggtg	ctcaccagcctg	cgcaagct	840
gtggctcatg	cacgcccagg	tagccaccat	cgagcgcaac	gccttcgacg	acctcaagtc	900
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<210> 410

<211> 984

<212> DNA

<213> Homo sapiens

<400> 410

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gatgtccttg	ccccacgggg	cattgctctt	cctctggctc	ttctccccaccct	gggggc	180
cggtggaggt	ggagtggccg	tgacgtctgc	cgccggaggg	ggctccccgc	cgccacctc	240
ctgccccgtg	gcctgctcct	gcagcaacca	ggccagccgg	gtgatctgca	cacggagaga	300
mctggccgag	gtcccagcca	gcatcccggg	caacacgcgc	tacctgaacc	tgcaagagaa	360
cggcatccag	gtgatccgga	cggacacgtt	caagcacctg	cggcacctgg	agattctgca	420
gctgagcaag	aacctggtgc	gcaagatcga	ggtgggcgc	ttcaacgggc	tgcccagcct	480
caacacgcgtg	gagctttttg	acaaccgggt	gaccacggtg	cccacgcagg	ccttcgagta	540
cctgtccaag	ctgcgggagc	tctggctgcg	gaacaacccc	atcggagca	tccccctcta	600
cgcttcaac	cgctgcccct	cgctgcggcg	cctggacctg	ggcgagctca	agcggctgga	660
atacatctcg	gaggcggcct	tcgargggct	ggtcaacctg	cgctacctca	acctgggcat	720
gtgcaacctc	aaggacatcc	ccaactgacg	gccctggtgc	gcctggagga	gctggagctg	780
tcgggcaacc	ggctggacct	gatccgcccc	ggctccttcc	aggtctcac	cagcctgcgc	840
aagctgtggc	tcatgcacgc	ccaggtagcc	accatcgagc	gcaacgcctt	cgacgacctc	900
aagtcgctgg	aggagctcaa	cctgtccccc	aacaacctga	tgtcgcctgcc	ccacgacctc	960

ttcacgcccc tgcaccgcct cgta

984

<210> 411
<211> 553
<212> DNA
<213> Homo sapiens

<400> 411
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tctcctcctc ctccctgtcc tggggctggt ggtgtctagc aagaccctgt gctccatgga 120
agaagccatc aatgagagga tccaggaggt cgccggctcc ctaatatatta gggcaataag 180
cagcattggc ctggagtgcc agagcgtcac ctccaggggg gacctggcta cttgcccccg 240
aggcttcgcc gtcaccggct gcacttgtgg ctccgcctgt ggctcgtggg atgtgcgcgc 300
cgagaccaca tgtcactgcc agtgcgcggg catggactggaccggagcgc gctgctgtcg 360
tgtgcagccc tgaggctcgc cgcagtggca acagcgcggg cggaggcggc tccagggtccg 420
gaggggttgcg ggggagctgg aaataaacct ggagatgatg atgatgatga tgatggaaaa 480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaa 553

<210> 412
<211> 1614
<212> DNA
<213> Homo sapiens

<400> 412
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gggcccggcac cagcattttg tggttacgaa ttctacagtc acaaatatct ttgggcaaat 180
ccccttctat acctcaaggc agctttttgt ttgcaacccc actggccaga gggaagggcc 240
agtcaacttg ctctctcact gccctgcgcc ccagatgggt ctagggtctg tgttttccct 300
tggccctgcc aacaccactg tttttacttc tgctcattgg ctgagtgcag tggttccttg 360
aagccagtgg cacgtttccc cgcgtagctc gcttatccca cagcacacac ccaagggttc 420
tggtgtctaac acgctgaatt aattctttgc tcatcttaca gagtgtgttt tgactgcccc 480
catttctgag gccttgtaag gccagagctt tgggcttca tcggcagggt gggacttaga 540
tggccgtgaa tgtttcctct ctgctgctgc agtaagtaag tgcccgcacc atagtgtgtt 600
tggaggctga agttgaagcg aggctgtgag gggagatgga cgtgtgagga gggatgatgg 660
ggcttgagca aagtggggga ggggcaaagc agttggccca acacattccc caccctttg 720
agaggctctga ggcctgcaga cctggctcgg agcccacctg gtatgcctca gactgtgtgt 780
gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtaaaagaga gaagttgtgg 840
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gcgggcgtct gcgtgacctc aggtgcttgg ggcccagcag acccagagaa ccatttccac 1440
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gtgcctttta tgataaaagt gatctgcata gagtcaaaaa ttcaagccat ggtataaaa 1560
tgcaagtaaa atccctgccc tcacctatcc caccctacta cacagagatg tcct 1614

<210> 413
<211> 1087
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (55)..(55)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (63)..(64)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (174)..(174)
 <223> n equals a,t,g, or c

<400> 413
 caagttaaag taangtggcc ccggcaacca ataagtgttg tttttggag ggctngaaag 60
 ttnnaaagcg agggcttgta aaggggaaga tgggaccgtt gtgaaggaag gatgattggg 120
 gctttgaagc aaaagtgggg gaagggggca aaggcagttg gcccaacaca ttcnccaccc 180
 ctttgagagg tctgaggcct gcagacctgg ctcgagagccc acctggtagt cctcagactg 240
 tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgttaa agagagaagt 300
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 cttcccatct ggacctgct gggcagggct tctragctcc tagcactag caggaggggc 480
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 cgtggggggc tcccacggac ccgccktggg ccagggggag gcagagcctg agccaacagc 600
 agtgggtgctg tggaccgtgg atcctgaggg tggcctgggg caagtaccgg ctgaggggtcc 660
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 gatttgtgcc tttaatgata aaagtgatct gcatagagtc aaaaattcaa gccatgggta 1020
 taaaatgtca agtaaaatcc ctgccctcac ctatcccacc ctactacaca gagatgtcct 1080
 ctcgagg 1087

<210> 414
 <211> 1201
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1182)..(1182)
 <223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1184)..(1184)
<223> n equals a,t,g, or c

<400> 414
gaattccgga acaaawgcyg gagctccacc gcggtggcgg ccgctctaga actagtggat      60
cccctnkgct gcaggaattc ggcacgagct gctgtctgtg cttcgggatc ctgcctcca      120
gaagtcctcc aaggcttggg acttgctgcg tgtccaggct ctgcagctgg tggcagctta      180
ccttagcctc ccgtcaaaca acctctcaca ctccctgtgg gagcagctct gtgccaagg      240
ctggcagaca cctgagatag ctctcataga ctcccataag ctccctccga gcatcatcct      300
cctgctgatg ggcagtgaca ttctctcaac tcagaaagca gctgtggaga catcgttttt      360
ggactatggt gaaaatctgg taaaaaatg gcagggttctt tcagaggtgc tgagctgctc      420
agagaagctg gtctgccacc tgggccgcct gggtagtgtg agtgaagcca aggccttttg      480
cttgagggcc ctaaaactta caacaaagct gcagatacca cgccagtktgccctgttcct      540
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gcagcaggtt ctgttcttgc ttgagtcctt cacagagttt ggtggggtga ctcagcacct      660
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tccacagctc ccagaggagg agctcttcct aagaggccct gctctagagc tggtgccact      780
gtggccaagg agcctggccc catagcacct tctacaaact cctccccagt cttgaaaacc      840
aagccccagc ccatacccaa ctctctgtcc cattcaccca cctgtgactg ctcgctctgc      900
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ccctccttgg ttccaagcct cttggatgag atttggctaa gcatacacac tgttgcaactg      1140
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t                                                                1201

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<210> 415
<211> 628
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (567)..(567)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (596)..(596)
<223> n equals a,t,g, or c

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<400> 415
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cgtttggttg accttctctt ggtgctatta tttgaaggac gaaaagcttt gccaaagtct      180
agtgtgggat ctacaggcag aatcccagga ctccggagat tagatagttc tggggagcgc      240
tcacatcggc agcttataga ttgtattcga agtaaagata ccgatgcact tatagatgca      300
attgacacag gaggtcagaa aatatttttt taaataaaa aagaaagttg tgagataacc      360
atataggcag ttctagttt tccgacagta ctcttagaaa tccagataac aaagtggcac      420
cccttcgata ttctccccta tccctgtgca taattatgta attatcagct tggttcttgg      480
tgaaacctga ataaatgctt tttgatgcaa aaaaaaaaaa aaaagaaaaa taaaaaaaaa      540
agataaaaaa aaaccttaaa aaaaaanaaa aaaaaaaaaa aaaaaaaaaa gaaaanaaaa      600
aaaaaaaaaa aaaaaaaaaa aaaaaaaa
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<210> 416

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<211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (367)..(367)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (380)..(380)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (408)..(408)
 <223> n equals a,t,g, or c

<400> 416
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 actgaccgag acattgaccg ctacacggaa gctctgctgc aaggctggct tggaagcagg 120
 cccagggccc cccttctcta ctatgtaaac caggcmcgcc aagctccccg actcaagtat 180
 cttattgggg ctgcacctat acctatggct tgccgtgtctc tctgcggtaa ccccatggag 240
 ctgtcttatt gatgctagaa gcctcataac tgttctacct ccaagggttag atttaatcct 300
 taggataact ctttttaaagt gattttcccc agtggtttat atgaaacatt tccttttgat 360
 ttaaccncag ataataaagn tacatccatt taaaaaaaaa aaaaaaancc cgagggggggg 420
 cccgg 425

<210> 417
 <211> 1191
 <212> DNA
 <213> Homo sapiens

<400> 417
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 gggatactcc caccatcgct tcccgaagg agtggggggc aagaccgctc gcctgcaggg 180
 ccctgctgac cctgcctgtg gcctacatca tcacagacca gctcccaggg atgcagtgcc 240
 agcagcagag cgtttgcagc cagatgctgc gggggttgca gtcccattcc gtctacacca 300
 taggctgggtg cgacgtggcg tacaacttcc tgggtgggga tgatggcagggtgatgaag 360
 gtgttggctg gaacatccaa ggcttgcaca cccagggcta caacaacatt tccctgggca 420
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 cagactgcca gactgtcgtc cgaaacatac agtcctttca catggcaca cggaactttt 780
 gtgacatttg atatcaataa ggccaggcgt ggccggcgatt acgtctgtaa tcccaggact 840
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 atggcgaaac tctgtctcta ctgaaaacaa acaaaacaa aaacaaacaa acaaaagaaac 960
 aacaaaaatt agccgggtgt ggtggcacac gcctgtagtc ccagctactc aggaggctga 1020
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 gcactccagt ctgggagaca gagtgagact gtctcaaaac aacaacaaaa aaatccctaa 1140
 cataatctca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggcgccg c 1191

<210> 418

<211> 1626
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (525)..(525)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (542)..(542)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (562)..(562)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (607)..(607)
 <223> n equals a,t,g, or c

<400> 418
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 gcccctgctg tcgctcctgg tcggcgcdg gctcaagcta ggaaatggac aggctactag 120
 catggtccaa ctgcagggtg ggagattcct gatgggaaca aattctccag acagcagaga 180
 tgggtgaagg cctgtgcggg aggcgacagt gaaacccttt gccatcgaca tatttcctgt 240
 caccaacaaa gatttcaggg attttgtcag ggagaaaaag tatcggacag aagctgaga 300
 gtttgatgg agctttgtct ttgaggactt tgtctctgat gagctgagaa acaaagccac 360
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 gratgacgcc cgtgccta atgtcytkgsg ggggraaacg actgncccac sggaggggaag 540
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 aaaaaa 1626

<210> 419
 <211> 2351
 <212> DNA

<213> Homo sapiens

<400> 419

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<210> 420

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 420

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<210> 421
 <211> 669
 <212> DNA
 <213> Homo sapiens

<400> 421						
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aaaaaaaaaga	agatgtgaag	tacagcattc	cagtgtgaca	cgagaaaaga	caggctgtgg	600
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<210> 422
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 422						
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<210> 423
 <211> 1949
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1130)..(1130)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1948)..(1948)

<223> n equals a,t,g, or c

<400> 423

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tggacccac cgtggtgggc agcagggtg cccggcaggc ttggtggact ctgctggcag      1860
caataaaaga gatgacggca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      1920
aaaaaaaaaa aggggggggg gctagtnt      1949
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<210> 424

<211> 1487

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (78)..(78)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (948)..(948)

<223> n equals a,t,g, or c

<400> 424

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gcatcagcga ccagctgggg ggccaggacg tgcccgtgtt ccggaacctg tccctgctg      180
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gatgggatgg	ctgcacggcg	tgggtgaagg	actgaacgcc	acctcactgt	aagacggtag	1380
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<210> 425

<211> 1525

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (78)..(78)

<223> n equals a,t,g, or c

<400> 425

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aaaaaaaaaa aaacccaccg tccgc 1525

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<210> 426
<211> 1050
<212> DNA
<213> Homo sapiens

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<400> 426
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<210> 427
<211> 718
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (678)..(678)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (687)..(687)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (699)..(699)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (708)..(708)
<223> n equals a,t,g, or c

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<400> 427
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gacaagctga gcacctggat cagtaaaggc ttatgtctct tatttggcgt gatgtgtacc      180
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gaccaatgta tcaaatacaa tgtgacagca acagggcctc cagtactatc cagcagacct      480
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attcaaccac tggttaatta gaccagtttg taattttaatt tgcttttggg ctaagaaagt      660
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<210> 428
<211> 614
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (52)..(52)
<223> n equals a,t,g, or c

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<400> 428
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gtggagggaat taaaacagag aaactggagt ttataaaaaca gagcccaatc cttgccttct      180
ctccctccac tcaaatagaa aaggagaatg gagaaagaga aagaaggat taggctacag      240
tttataagag agatgagaaa aaaatacatt tgggaataga gggaaagggg caaaaggggt      300
cacatttgga gaaatatctg aaaatgagaa ggagcagaat ttttggaac atttttttaa      360
gtctggcaac gctaattaag ctgttgatct aaggatttgc aaattgagag gtgcaattat      420
tttccaaatg atttgtgaca ctcttattaa ttagaatata tattctgtga atattgaaat      480
ctgagccaaa actagttagc tttattata tcttagggaa agaagagaga aagaaagagg      540
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aaaaaaaaac gtag                                     614

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<210> 429
<211> 1194
<212> DNA
<213> Homo sapiens

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<400> 429
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tgagaagaaa tggccaaacg caccttctct aacttgagga cattcctgat tttcctcctt      180
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<210> 430

<211> 2334

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2278)..(2278)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2290)..(2290)

<223> n equals a,t,g, or c

<400> 430

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gccctgcaca	acatgcagcc	ctccggcctc	gaggtcccg	gcacgtttgg	tcggtggcct	180
ctgctgagtc	tgctgctcct	gctgctgctg	ctccagcctg	taacctgtgc	ctacaccacg	240
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cgcgcgatgt	gtgcctccta	ttctgagctg	gagcttgtga	cctcggctaa	agctctgaac	660
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<210> 431
 <211> 759
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (51)..(52)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (57)..(58)
 <223> n equals a,t,g, or c

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catctaccac	ccccagtagg	gctccagggg	ccatcactgc	ccccgccctg	tcccaaggcc	660
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<210> 432
 <211> 647
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (525)..(525)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (578)..(578)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (581)..(581)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (620)..(620)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (629)..(630)
 <223> n equals a,t,g, or c

<400> 432
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 gaactggagc taaggctaag tggctgtctt gtttaataag agtttgatc agatggcctg 180
 gcatgaagag tcaactggcct gagagaatgt caggggcatt tgtaaagtgt taaagggctg 240
 aaaaatcctg agggattatt attattgcta ttgttggtat tattcacaga cacatycac 300
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 ggccatttac tcggcatggc tatttttaca gtgggtaagg agcanggcta aaaataactt 540
 agctcataac cagacaggtt ctgcatttga cattacgngg attcatttg catcccat 600
 ggtcgccttt ctggttaacn ggtagaatnn aagaaagctc acccgaa 647

<210> 433
 <211> 1321
 <212> DNA
 <213> Homo sapiens

<400> 433
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 ccggtaaaat gtttatcggg ggactgagct ggcagacctc accagatagc cttagagact 240
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 gtcagcccca ccatgagtta gattccaaga cgattgaccc caaagttgca tttcctcgtc 420
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 cccggggact gccttacacc atggacgcgt tcatgcttgg catggggatg ctgggtgagt 780

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c						1321

<210> 434
 <211> 1636
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1624)..(1624)
 <223> n equals a,t,g, or c

<400> 434						
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<210> 435
 <211> 645
 <212> DNA
 <213> Homo sapiens

<400> 435

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<210> 436

<211> 1084

<212> DNA

<213> Homo sapiens

<400> 436

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<210> 437

<211> 1168

<212> DNA

<213> Homo sapiens

<400> 437

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cctggccctc	tcgctgttgc	tggtctctgg	ctccctcctc	ccagggccag	gcgccgtca	180
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agggacctct	aaagtaaatt	cacacatcaa	agttaaaata	atgttggaga	atcacctcct	420
gtgaaaaatt	ggcttagctt	tcagtatgcc	tctttaaaca	aaacattatc	attttataca	480
aatttttaaa	atgttggttc	taatatggag	tttaatttta	agcaccttag	aaatgcatt	540
tgtagcttgc	tttgtgaaat	ttttatggat	tttttttttc	aaaattccta	attttagttg	600
gtaaggatta	acttcgggaa	gacaggaaac	ccctccagta	aaattaattg	gttataaatg	660
gttacatatt	ttaggcttat	atacataaca	aaacttctaa	ctgaatttaa	aagtgtctct	720
gtgtaaaaac	attattctag	tgatattgat	gtctaaaattt	aaaagagtga	atacacaagt	780

aaaatatatc	tgcttttttaa	ggatctatct	agtttaggaa	ggagagtcaa	aatttgtatt	840
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tgtatgtaca	aaggcaaaca	tttatcaatc	aactcttatt	aatttggat	tattttgacc	960
tgattgctca	gaacttttgt	ctatctgtat	agaaatgggg	ttttctaaat	atttaaagaa	1020
tttcctacgt	atgtaaattt	acttgcacac	agtaagttag	gggagacatt	taatattcct	1080
cagatacctg	ctgttttctt	gttgtgtttc	ttgtttttca	aataaataaa	ctgagtgtta	1140
tctgttcatt	aaaatagaat	gtagtcag				1168

<210> 438
 <211> 1776
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1748)..(1748)
 <223> n equals a,t,g, or c

<400> 438						
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ctctacaact	agtctttctc	tgattgcccc	gccctcaacc	catctaaact	agaccccagg	180
gaagcacctt	ggtccccctt	ctctctccca	ctcaccatcc	aaccaatcac	cagagcctgt	240
acattctata	ttttcaacat	cgattcaatt	gtctacttct	ttctagcctg	ccctctctga	300
ctgggactcc	ttgagccagc	ctgatcacc	caatccatcc	ctcacactgt	gccccatctt	360
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tttctggccc	tttcccgtca	caccttagac	gtgcactctc	ctctcgaaaa	cctctagtga	660
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gagcatcgat	tctccatctc	agcaggcctc	tgtgtgcctg	ctgactccga	ctagaccaga	780
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gtgcattacc	tattcatcct	cttctctccc	ttaacctgaa	ccagtgatct	tactgtctcc	900
atcattgttt	ttttcttttc	ttttcttttc	tttttttttt	ttgaggtgga	gtctggctct	960
tcacccaggc	tggagtgcag	tgatgcgac	tcgactcact	gcaacctcca	tctcctgggt	1020
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caaagtgttg	cgattacagg	tgtgagccac	tgcgccaagc	ctcatttagt	aatagcatt	1500
taaactttct	ccatgkcttt	aatggcttga	tagctcattt	atttttatca	wggaatattt	1560
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tggacctatt	atcaacta	tcgggtaaat	ctcaaggagt	gcaattgctg	gatccacagt	1740
aagagtgngt	ttagttttta	gtgcttggcc	attttc			1776

<210> 439
 <211> 784
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (32)..(32)
 <223> n equals a,t,g, or c

<400> 439
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 gtgttgtagc tgttttgcat tttggccatt ctagttaggt tttacatggg atctagtcac 180
 ttgaatgggc atatgatgtg gaacatcttt ttttttttat tttwttatta ttatacttta 240
 agtttttaggg tacatgtgca caaygtgcag gttwggtaca tatgtatacatgtgccatgy 300
 tgggtgtgctg caccaytaa ctcgtcatyt agcattaggt atatctccya atgctattgg 360
 aacatctttt catgtgttta tttgccatct gtatatcttc cctgatgagt tggggatgca 420
 ttctttccat ctacagagtc ccagaaacta acatagcagt tgggtacagag ttgggtgctca 480
 acaaacatca gcttaggaac tatgtcctat gtttttttgt tttttttttt ttttaaaaag 540
 gaatgtgagc gtgtcccaaa acgtatgtcc ttccccatg cctctaccct gcccttccac 600
 aaactttctg atcttcagca cacactaccc aaccatcaag gctgagactt cccgtggcca 660
 gcagtgtctc atgctggctt caagccccac agcactgctt ttttactt ctcttggtgt 720
 ttagactgtc tttagcccag caagagaatt cgatatcaag cttatcgata ccgtcgacct 780
 cgag 784

<210> 440
 <211> 699
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (30)..(30)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (46)..(46)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n equals a,t,g, or c

<400> 440
 ggttcagtgt tnaaccccat ttgctggatn ctgctttgac cctgtntccc tgtactgggtg 60
 ttatngaat cctggcacac attgctatcc cactctgaga ggmcwtgagc aaagaamccc 120

cagtrgcaga	agccacattg	tgctcaggtc	ttagttctaa	caaacaccat	tccccattaa	180
aaggaaccag	gctccttaga	gaaatggatg	attccagggc	tgtggcaggg	taggtacaag	240
atgaacctaa	agtgtcgttt	tataccagaa	agtaagaaag	tattaaagtg	tttaaaaaag	300
tgatgggagc	atatcacaag	gattcagaag	ggataccaac	tggtctaaatc	tggaacaatt	360
tgatcaccaa	agtaagtaca	ataataaatt	ctaagctatt	gaagtaaagg	catttattat	420
gtgtagtaat	aataaataga	taatgagaga	gaaatgagga	ctcatgctta	cagtaaaatg	480
ccaggagctg	actggcataa	atgtggaagg	aaggctggag	tgggaaaatt	attattttgc	540
aaccatcatg	gtaattacca	gatcagataa	ggatcaacag	atgccaaatc	tagggcaaat	600
ttgatgagga	gcagaatatt	tgcactgtct	ttgagagttt	ctcccagaga	tcacttattt	660
gttgtaaaaa	aaaagaaaaa	aaaaaaaaaa	aaactcagag			699

<210> 441
 <211> 616
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (592)..(592)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (611)..(611)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (613)..(613)
 <223> n equals a,t,g, or c

<400> 441						
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agatatgtaa	accctgatga	atacagtatg	tgttatgaga	agtggcccaa	cgaagcagct	120
catccaagtg	agatttctgaa	gttgggctgg	cgagtacacg	aatggctttc	ttactagaga	180
gaagtgggac	cctgctaata	tgtagcatgt	ggtggcatca	tggttactca	aatatcactg	240
gaacagaagg	tgaaagaaga	aatctgaaga	gaaataaaaac	aaatttttcg	cggttccaag	300
atggccgaat	aggaacagct	ccagtctaca	gctcccagtg	tgagagatgc	agaagatggg	360
tgattttctgc	atttccaact	gagcaaacgg	sacaccagaa	gattatatcc	catgctggc	420
tgggaggggc	ccatgcccac	ggagcctcgc	tcattgctag	cacagcagtc	tgagatccat	480
ctgcaagggtg	ggcagtaggg	ctggsggagg	ggcaccacc	attgctgagg	cttgagtagg	540
taaacgaagc	arycaggaag	ctcgaactgg	gtggagccca	ccgcaactca	angaggcctg	600
gctacctctg	nanact					616

<210> 442
 <211> 1842
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (67)..(67)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (98)..(98)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (212)..(212)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1838)..(1838)

<223> n equals a,t,g, or c

<400> 442

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tggcttnggc	gttggcggcg	ctggcggcgg	ctcgagcngc	ctgcgsagcc	ggtaccagca	120
gttgacagaat	gaagaagagt	ctggagaacc	tgaacaggct	gcaggatgat	ctcctccacc	180
ttacagcagc	atttctgcag	agagcgcaca	tnattttgac	tacaaggatg	agtctggggt	240
tccaaagccc	ccatcttaca	atgtagctac	aacactgcc	agttatgatg	aagcggagag	300
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gtgggtgttc	cttggttttag	gctttctcct	gtttctcaga	ggatttatca	attatgcaaa	660
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cagaacatta	ataaatatct	cttgtgtagc	acctttttaa	aaaaaaaaaa	aaaaaaaaaa	1800
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa		1842

<210> 443

<211> 1963

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (335)..(335)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1959)..(1959)
 <223> n equals a,t,g, or c

<400> 443

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aacttttttc	atggcattcc	tctttaactg	gattgggttt	ttcctgtctt	tttgccctgac	600
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<210> 444
 <211> 1487
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1470)..(1470)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1487)..(1487)
 <223> n equals a,t,g, or c

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<400> 444
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cagttgcaga atgaagaaga gtctggagaa cctgaacagg ctgcaggatga tgctcctcca      180
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atztatcaat tatgcaaaag ttcggaagat gccagaaact ttctcaaadc tccccaggac      360
cagagttctc tttattttatt aaagatgttt tctggcaaag gccttctctgc atttatgaat      420
tctctctcaa gaagcaagag aacacctgca ggaagtgaat caagatgcag aacacagagg      480
aataatcacc tgcttttaaaa aaataaagta ctggtgaaaa gatcattttct ctctattttgt      540
tcctaggtgt aaaatttttaa tagttaatgc agaatttctgt aatcattgaa tcattagtgg      600
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cacataatcc atatttgctg ttcaagttaa tctagaaatt tattcaattc tgtatgaaca      900
cctggaagca aaatcatagt gcaaaaatac atttaagggtg tgggtcaaaaa taagtcttta      960
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aatgaagctt aattactaaa atgtaattct tgacactctt tctataatta gcgttcttca      1140
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tctgggagta aggagaggat taggtactta ggagcaaaga aagaagtagc ttggaacttt      1260
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ggttataatg tagaatgatg tgctttctgc ccaagtggta attcatcttg gtttgctatg      1380
ttaaaactgt aaatacaaca gaacattaat aaatatctct tgtgtagcac ctttaaaaaa      1440
aaaaaaaaaa aaaaaaaaaa aaaaaaaan cccggggggg ggcccn                          1487

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<210> 445
<211> 1653
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (67)..(67)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (212)..(212)
<223> n equals a,t,g, or c

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<220>
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<222> (1636)..(1636)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1653)..(1653)
<223> n equals a,t,g, or c

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<400> 445
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gttgcagaat gaagaagagt ctggagaacc tgaacagggt gcaggtgatg ctctccacc      180

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ttacagcagc	atctctgcag	agagcgcaca	tnattttgac	tacaaggatg	agtctggggt	240
tccaaagccc	ccatctttaca	atgtagctac	aacactgccc	agtttagatg	aagcggagag	300
gaccaaggct	gaagctacta	tccctttggt	tccctgggaga	gatgaggatt	ttgtgggtcg	360
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<210> 446

<211> 1830

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc_feature

<222> (97)..(97)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<400> 446

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<220>
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 <222> (2021)..(2021)
 <223> n equals a,t,g, or c

<400> 447

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 <212> DNA
 <213> Homo sapiens

<400> 448

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<210> 449
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 <212> DNA
 <213> Homo sapiens

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<400> 449						
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<210> 450
 <211> 1570
 <212> DNA
 <213> Homo sapiens

<400> 450						
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<400> 451						
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1327)..(1327)
 <223> n equals a,t,g, or c

<400> 452

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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<212> DNA
<213> Homo sapiens

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 <212> DNA
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 <212> DNA
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<400> 461						
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aaaaaatgca	ttttaataaa	aacaaatcta	tactgaagtc	attttccttt	gtgagaggaa	180
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tctcaagagc	ataccacatt	ttaaacacat	tatggtcatt	tagctatttc	aatattcctg	300
ggagtgggtg	gcaattagcc	tgtctatggc	ttaggatctg	tttccatgct	tgcttcctga	360
gcttcttcta	cctctgagag	tttttcatca	ttttccaatg	tttgctgaag	ttcatggatg	420
gtactaagaa	gaacatgaaa	ctggttccgt	ctcaattcca	gcttatcttc	aacactttct	480
ttaatgtgtg	aaagatgctc	taattctttt	cccagagcct	ctagtccctt	taatgtctca	540
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cgtattcgtt	ttgcttgaag	aatttgcttt	ttgcaactcag	caattttttc	atgtgctcca	660
gctatgctac	attctatttc	cttgtaaatt	ttttcataat	tttccatttc	tctgagattc	720
atatcatata	ctagtaaagt	tttgccatt	gaaaattcac	attgagacag	cgtgctcagc	780
atacgttggg	actggctata	tccctcttcc	tgggacccag	agttgcacca	tttaatgaaa	840
ctcttcacta	gcagattaat	tctccgatca	tctccagcac	catctccatc	aatgaggaga	900
cgcttccgta	taattcgtcg	tcagtcacgg	ctcccatggc	gtgcgcggcg	gcggcggcgg	960
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<210> 462
 <211> 427
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (230)..(230)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (290)..(290)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature

<222> (338)..(338)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (381)..(381)
 <223> n equals a,t,g, or c

<400> 462
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 ctccgacccc gccgcgcgca ccatgcagcc cccagcctgctgctgctcg tcctcgggct 120
 gctcgtctcg cccgcgcgca cgctcgtccg aatcccgctg cacaagtcca cctctgtcgg 180
 ccggaccatg tcggagttgg ggggccccgt ggaggatctg atcgccagan gccccatttc 240
 aaaatacgcc caggggggtgc ccagtgtggc ggggggtccc gttccggagn tgctcaagga 300
 aactacatgg aacgcgcaaa tactacgggg aaaattcngg catccgggaa cgcccccccg 360
 caaattgctt ccacccgtcc ntcccttttga aaaacggggg tccttcccaa ccttggttggg 420
 ttcccc 427

<210> 463
 <211> 1500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (8)..(9)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (417)..(417)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1431)..(1432)
 <223> n equals a,t,g, or c

<400> 463
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 tggtcactca agaggggaaa agctcacaga aggtggcacc agccccccc tccccttctt 120
 ccccaacccg gcaccagcaa atgccctcct agatgggggtc aagccccagg aggaccccaa 180
 aggcatcaca aggctgcctt ttgtccctga gtcccgaacc ttccaagccc ttctgtcttg 240
 tccttggggc tcggcgggtc ccttccacga tgggccacac gggaagacag gccagcagtg 300
 ccccgctctg gaccccagac cagaccccag gaggagaagc ccagagaaca gcctggcctg 360
 ggggtggggg tcagtccaga agtcctgcct gggcagccag gccccgaag cacggggtg 420
 gggggggggg gggaactacc tgggccgggg gaggggggtcc cgctgcaag acgatgggcg 480
 gccgagccag gctggggctt cccagtcagt gacgtggctc cagactcggg gtcagcctag 540
 tggctgctgc cccgcacccc gccctctact agacagacag acacaccaag gccggggaaa 600
 ccacagaaca aaacggcagc cagacagccc ggcgcctgca gagctgggct ttgagtgtga 660
 gtctgagcgt gagtgtgtgc ggcaggggtg gccgggaggc cggggcgggc agcctcctcc 720
 tgccggagacc cgtcctcccc agcgggcggg cagctagagc ctggtggcct cggccaggcc 780
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 gatccagagc ggcccgcggg gcggggggat gtccatgccc atgaagccgc tcaagcagat 900
 ggacttcccg ccctgcgaca ccttgagcgt gtatgcctct gacgacagct tgtagggttt 960
 gccgcccagc gtcagggtga cctcgggcaa ggtggacacc ttctcacagg ggatcatgta 1020
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caccagcttc	tgctgcatca	ggttatcaaa	gwcgggaagc	acattgttga	ccgagatgcg	1380
ggggtaggcc	atgcccagga	tgccgtcgaa	cttgccgcgc	atgaagggtga	nncccggtg	1440
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<210> 464
 <211> 1234
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1058)..(1058)
 <223> n equals a,t,g, or c

<400> 464		
cgccggccgc	gcccacgtga ycggtccggg tgcaaacacg gggtcagct gatccggccc 60	
aactgcggcg	tcatcccggc tataagcgca cggcctcggc gaccctctcc gaccggccc 120	
ccgccgccat	gcagccctcc agccttctgc cgctcgccct ctgcctgctg gctgcacccg 180	
cctccgcgct	cgtcaggatc ccgctgcaca agttcacgtc catccgccgg accatgtcgg 240	
agggtggggg	ctctgtggag gacctgattg ccaaaggccc cgtctcaaag tactcccagg 300	
cggtgccagc	cgtgaccgag gggcccattc ccgagggtgct caagaactac atggacgccc 360	
agtactacgg	ggagattggc atcgggacgc cccccagtg cttcacagtc gtcttcgaca 420	
cgggctcctc	caacctgtgg gtccctcca tccactgcaa actgctggac atcgcttgct 480	
ggatccacca	caagtacaac agcgacaagt ccagcaccta cgtgaagaat ggtacctcgt 540	
ttgacatcca	ctatggctcg ggcagcctct ccgggtacct gagccaggac actgtgtcgg 600	
tgccctgcca	gtcagcgctg tcagcctctg ccctgggcgg tgtcaaagtg gagaggcagg 660	
tctttgggga	ggccaccaag cagccaggca tcaccttcat cgcagccaag ttcgatggca 720	
tccgtggcat	ggcctacccc cgcatctccg tcaacaacgt gctgcccgtc ttcgacaacc 780	
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tgccgctgat	tcagggcgag tacatgatcc cctgtgagaa ggtgtccacc ctgcccgcga 1140	
tcacactgaa	gctggggaggc aaaggctaca agctgtcccc agaggactac acgctcaagg 1200	
tgtcgcaggc	cgggaagacc ytctgcctga gcgg	1234

<210> 465
 <211> 1395
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1338)..(1338)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1382)..(1384)
 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (1390)..(1390)
 <223> n equals a,t,g, or c

<400> 465
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 gccgctggcc gccgcgcggc cgggccctac ttccgtcccc gccggggctg ccgcctgccc 120
 ctgcgggggg accagctgtc ggggctgggg cgcaggacct acccccggcc gcacgagtac 180
 ctgtcccat ctgacctgcc caagagctgg gactggcgca acgtgaacgg ggtcaactat 240
 gccagtgcc ccaggaacca gcatatcccc cagtactgtg gtcctgctg ggcccacggc 300
 agcaccagt ccatggcgga ccggatcaac atcaagagaa agggggcgctg gccctccamc 360
 ctgctgtccg tgcaacamkt cytcgaytgg cgccaacggc gytctgtga gggggcaack 420
 acctgccgg gtsgacgtac gcccattgagc amggcatccc ggacgagacc tgcaacaact 480
 accaggctaa ggaccaggaa tgcaacaagt tcaaccagt tggaacatgc acggaattca 540
 aggagtgcc ctacatccag aactacacgc tctggaaagt gggtgactac ggctccctct 600
 ccggcaggga gaagatgat gcggaaatct atgccaacgg ccccatcagc tgcggtatca 660
 tggccacgga gaagatgggt aactacacgg gaggcattc cgcggtgac caggatcagg 720
 cctacataaa ccacgtcatt tctgtggtcg gctggggcgt cagcgacggc acggagtact 780
 ggggtgtccg gaattcgtgg ggggaaccgt ggggggagca cggctggatg aggattgtga 840
 ccagcaccta taaagacggg cagggcgcca gttacaacct cgctgtcgag gacacctgta 900
 cgtttgggga ccccatcgtt taaggacag gtctccccag aagagcagt ttatcgtgaa 960
 ccataatcag ggggtcctat cgctctgggc actgggttg tccaccatg gtctgaagg 1020
 actggggact ggcattcaaac gtgtctgat gctgctcgcg gccccgtgcg cccagaagg 1080
 agaaggggg cctgtcagca cacagcctgc cgcggcgcc gccgggagcg cgctcctggg 1140
 gaagagtctg caatgggacg gctgagagcc ccggggcggc cactgccctg cccagtgtct 1200
 gcctggccac cgtgtgatcc gcaaggccca aacgatgtga ctgcaagctt ctctgtccct 1260
 gatttggtgt ttctgtctg gcagctgtgg tccatgatgt ggtgcggaag cccaagcttc 1320
 tcaaagctct tacgttgnt gggattcggg gggggggagt cgggggggtg aaggagaaa 1380
 cnnnccttgn aagat 1395

<210> 466
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (260)..(260)
 <223> n equals a,t,g, or c

<400> 466
 tgtcagcaca cagcctgccg cggcgccgcc gggagcgcg tccctggggaa gagtctgcaa 60
 tgggacggct gagagcctcg ggccggcac tgccctgccc cagtgtctgc ctggccaccg 120
 tgtgatccgc aaggcccaaa cgatgtgact gccaaagctc tctgtccctg atttgggtgtt 180
 tccgtgtctg agctgtggtc catgatgtgg tgcggaagcc caggcttctc aaagctctta 240
 cgttgctggg attcgggtgn ggggartcgg 270

<210> 467
 <211> 2324
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (15)..(15)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (92)..(92)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (95)..(95)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (107)..(107)
 <223> n equals a,t,g, or c

<400> 467

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catgataaga	tccattgatg	agtttggcca	anccncaact	tagaatncag	tgaaaaaaat	120
gctttatttg	tgaaatttgt	gatgctattg	ctttatttgt	aaccmttata	agctgcaata	180
accaagttac	camcamcaat	tgcattcatt	ttatgtttca	ggttcagggg	raggtgtggr	240
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mcaattagaa	tcactagctc	ctgtgtataa	tattttcata	aatcactc	agtaagcaaa	420
actctcaagc	agcaagcata	tcagytatg	ttaacmcatt	atacacttaa	aaattttata	480
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gaagcaccga	gttttgatac	atccacactc	ttgctgccag	tctttttttt	cttttctctc	1920
ttttttctac	ttagtagttc	atccagttgt	ttttccaggt	agattgacca	aaccacagca	1980
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tcatcatacc	tctgccttcg	ttcatcatcc	tttaaaactt	cataaatggc	caccaattgt	2160
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<210> 468
 <211> 2522
 <212> DNA
 <213> Homo sapiens

<400> 468						
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gtccgtctgc	ccagccatct	gctggtggca	cctctccctc	ctgccgcctc	cctcggtgaa	180
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tcctcaaagc	ttctcgccat	ctctgaggag	ctggccgggc	gccgcctgca	ggctgtcccg	360
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cggccggggc	cgctgcgact	gcggcgctctg	catctgccac	gtgactgagc	cgggcatgtt	480
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tcttccataa	ttaacataag	tggttcctaa	gagagcaat	ttttccacc	aaaagtcat	1980
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cattttaata	tggggacaat	gaagacaagc	acacaggagg	tagaatatca	gagtggggct	2340
ggatcaagg	caaaaactgg	tcattagtc	atctgacatt	aaatcattta	gccactaagt	2400
tatttgtcta	ctctcacttt	aaactcacca	aagaagattc	tcttaaagaa	attatgaaaa	2460
atgtacaatt	taacattttta	aataaatagt	gacagaagtt	gtttataaaa	aaaaaaaaaa	2520

aa

2522

<210> 469
<211> 585
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (570)..(570)
<223> n equals a,t,g, or c

<400> 469
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tgggtggctat gatagtttcc ggagttataa cagcagtgtg ggcagtgaga gcagctccta 180
tctggaggag tcaagtgaag cagaaaatga ggatcgggaa gcaggggaac tgccgacctc 240
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aatgcctat	gatttaggtt	accaatgtat	tctttctcat	ttggggtttt	gcttcttct	1620
gtctgtttat	tggaaacttg	tacttcaagt	agggggaatc	ctaattctaa	taactcctta	1680
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<210> 475
 <211> 438
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (61)..(61)
 <223> n equals a,t,g, or c

<220>
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 <222> (351)..(351)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (436)..(436)
 <223> n equals a,t,g, or c

<400> 475
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 gcctccctgc ccctccagta aactcccaca caaaatagca gtatgagggtg tggggaaata 180
 atcttggcct ccgtcctggg tttacttttg actctgccac ctacaagctg tcacctgaac 240
 aagtcctttc cgttcctgtg tcttccctgg tcacaagctc taagcctgaa cccacactct 300
 gggaatgaag cagggtagcg gcctctgctt cagcaactct gaggggtcta ncttgggtgg 360
 ggagttggcc tcatccagaa ggctgctgga aggccaaagac aaggctcttg tggggaagtg 420
 ttctgagaag ggattnct 438

<210> 476
 <211> 538
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (462)..(462)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (498)..(498)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (520)..(520)
 <223> n equals a,t,g, or c

<400> 476
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 gatgttatat caaaatatgt tgttatactt taggatatc ggtgtgttag ccctgaattt 180
 cagcataagt cccatttttt tccatgggag tctaggaaag ctatatgttt attcagcagc 240
 aaaatacagt ttggaactta aataaactat tgatcaattc tggctttatg ctagaaggaa 300
 taaagcatca agaaaaagaa aagattgctg tcaagaccag gaaaattgac aatagagtat 360

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acagtagaaa	gtgaatgtag	gagcttctga	cccagcactc	angaacgcaa	ttcatcccta	480
aaaagctgtt	gcgtctangt	tgccagtaac	caattaaaaan	ccgtttgaag	tagagtga	538

<210> 477
 <211> 1346
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (5)..(5)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (107)..(107)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (150)..(150)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (323)..(323)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1337)..(1337)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1341)..(1341)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1343)..(1343)

<223> n equals a,t,g, or c

<400> 477

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gtctccatct	ttgggcagat	ccaccatgag	acataacttc	ccagaaatcc	agttacaagg	240
aggaataagt	attgaagact	taagaaatgc	attttgcagc	aggtcctcgc	tgtactgggg	300
cagcgggtcca	ttcatagagc	ccngctaga	tagaggtcac	aagctcagaa	gcttctctaa	360
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<210> 478

<211> 912

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (36)..(36)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (93)..(93)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (158)..(158)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (592)..(592)

<223> n equals a,t,g, or c


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aattgctgga gagtagtcct tgttctttgc tgacaganca ggagcagagt gtggaatgaa      180
aactcaatag cctcctctat tctcaagaga caattgactt ccatctgttt aaacctcccc      240
aggggaccct gctcccccca tttccattta ctctcctttc caccaaccta gggtgacatt      300
aagaaaacca aacccatttg aaacacaagc tcttacacat caaaagtcag gggagaagtc      360
tggttgacct gtaagccact gcatgaggca caaagatgca aaaaggaact ttcaggaaca      420
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gagccccaga agaggaggaa tgtcmagtat gtttaaatg tgaaaccttt agttatactt      540
gctctttact cagaaaggag agagtattcc cttatgccaa cgagggtctct gngagttggt      600
tgactatttg gtagcagggt ctgcctgggg tagctcttat ggtctgtgct tgaagtgtgc      660
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gatcaaata ga ctcttatgat gacagctgtc tcactract ttcaaactgg ttttaatttg      780
gttacttgca acctaagaca gcaracagca ttttagggat gaattgctt cctgaagtgc      840
atgggtcaga aagctcmtac attcacttty tactgtccct gcactttttc tatcctactt      900
gctgcccttc ca                                     912

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<210> 479
<211> 1177
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1095)..(1095)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1115)..(1115)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1142)..(1142)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1162)..(1162)
<223> n equals a,t,g, or c

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<400> 479
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aaattactca ttttgtttct atcccatttg ctgtcccttg cttttggaat tttgtgtctt      120
agtgtgactg tgattctttc tctccttttg tctttcagca aacggggatt cagcgtccga      180
tcctttggaa cagggactca cgtgaagctt ccaggaccag ctcccgacaa gcccaatgtt      240
tatgatttca aaaccacata tgaccagatg tacaatgatc tcttaggaa agacaaagaa      300
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ccagaaagat tccagaactg caaagacctg tttgatctga tcctcacttg cgaagagaga      420
gtgtatgacc aggtggtgga agatctgaat tccagagaac aggagacctg ccagccygtg      480
cacgtggtca atgtggacat ccaggacaac cacgaggagg ccaccctggg ggcgtttctc      540
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ctgctgcagg agttcgagga gaagagtggc cgcacctttc tgcacaccgt ctgcttctac      660
tgagcccagc gcccgcatgg agccgcctct ggagctcct gttgttcata ctttttcctt      720
cctgacattt gtttttactt acaggtgttc tgctggtgac ggtagcatta ccaaataaa      780

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ctgtgcatat	gaaatgggag	aggagatgcc	aaaacgccag	atgaaagcaa	tcaagtttct	840
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tgacctggaa	ttgtcaataa	acagatgctg	ctgtcaaaaa	aaaaaaaaaa	aaaaaaaaaa	1080
aaaaaaaaaaa	raaancaaaa	aaaaaaaaaaa	aaagnggggc	cgaaggtttt	ttccctttgg	1140
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<210> 480
 <211> 1775
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (820)..(820)
 <223> n equals a,t,g, or c

<400> 480	
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tctccccgc	240
aagggccttg	300
gagaatttgt	360
tgcagcaagt	420
agctggtggt	480
tccctgaagc	540
ggaacagaga	600
agcgggcact	660
ggctaccttg	720
tgtgcccgat	780
ctgcatcacc	840
ccaggtcgct	900
gtggatgagt	960
ggcggttatc	1020
gagcagatcc	1080
ctgcagcaga	1140
gacttggtgt	1200
tcagagcgca	1260
cctgtaggac	1320
actcaggaca	1380
gcagcccagg	1440
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ctcacagggg	1620
ctgtgttcac	1680
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cgtacccaat	1775

<210> 481
 <211> 866
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (14)..(14)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (33)..(33)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (105)..(105)
 <223> n equals a,t,g, or c

<400> 481
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 agcttggttt atttttgaga gtggggtaag caccctacc tgccttacag agcagcccag 480
 gtaccagggc ccgggcagac aaggcccctg gggtaaaaaag tagccctgaa ggtggatacc 540
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 ccacatcccc acacccatt gccacttatt tattcatctc aggaaataaa gaaaggtctt 780
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<210> 482
 <211> 2052
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2045)..(2045)
 <223> n equals a,t,g, or c

<400> 482
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 gaaatatagt tagctatact ctgaaaatac attatgtttt ttttctttta aaaaaacaca 660

caacatgtaa	gcattgtaaga	gtaaagaatt	gtatgatatg	ttcctttttt	cagttcacca	720
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<210> 483
 <211> 1237
 <212> DNA
 <213> Homo sapiens

<400> 483						
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<210> 484
 <211> 1681
 <212> DNA
 <213> Homo sapiens

<400> 484

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cagcccragg	aagggaacca	ataacctttc	aaaacscaaa	ctgctkcctg	cggtgagggc	180
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<210> 485

<211> 1863

<212> DNA

<213> Homo sapiens

<400> 485

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<210> 486

<211> 1134

<212> DNA

<213> Homo sapiens

<400> 486

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<210> 487

<211> 626

<212> DNA

<213> Homo sapiens

<400> 487

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<210> 488
<211> 152
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (41)..(41)
<223> n equals a,t,g, or c

<400> 488
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<210> 489
<211> 1760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1693)..(1693)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1748)..(1748)
<223> n equals a,t,g, or c

<400> 489
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agaactgttt ccagcgccaa ttctcagagc tgtaccctca gctgaacccc agcaggarg      180
ccccatgacc ctgagttgtc agacaaagtt gccctgcag aggtcagctg cccgcctcct      240
ctttctcctc tacaaggatg gaaggatagt gcaaagcagg gggctctcct cagaattcca      300
gatccccaca gcttcagaag atcactccgg gtcatactgg tgtgaggcag cactgagga      360
caaccaagtt tggaaacaga gccccagct agagatcaga gtgcagggtg cttccagctc      420
tgctgcacct cccacattga atccagctcc tcagaaatca gctgctccag gaactgctcc      480
tgaggaggcc cctggctctg cctccgccgc caaccccatc ttctgaggat ccaggctttt      540
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<210> 490
 <211> 880
 <212> DNA
 <213> Homo sapiens

<400> 490						
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ctgctttcat	tatctcatgc	tcctcttgat	agcctgaagg	cttcttttgt	ggaattgggt	660
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tcagcactcg	tgaggtgtac	tgctgctaga	atgtttgagg	tatgtcaaca	catgcctctg	780
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<210> 491
 <211> 1106
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (857)..(857)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1037)..(1037)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1058)..(1058)
 <223> n equals a,t,g, or c

<400> 491						
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<210> 492
 <211> 646
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (544)..(544)
 <223> n equals a,t,g, or c

<400> 492	
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cggccctcca	ggtgcagaaa
120	
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ctcagactgg	cctgtgtcct
180	
ggctcctctt	accacctctt
ccagagggtt	tcacctgcag
ctgccccagg	ataaaggcaa
240	
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caggggcaaa	catagccaac
300	
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tgggtgargac	acccttggtg
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cactgcaacc	ttaaactccc
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<210> 493
 <211> 1590
 <212> DNA
 <213> Homo sapiens

<400> 493	
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accatctttc	tacgtgactc
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<210> 494
 <211> 1179
 <212> DNA
 <213> Homo sapiens

<400> 494						
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 <212> DNA
 <213> Homo sapiens

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<210> 497
 <211> 1673
 <212> DNA
 <213> Homo sapiens

<400> 497						
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<210> 498

<211> 2084

<212> DNA

<213> Homo sapiens

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<222> (775)..(775)

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<220>

<221> misc_feature

<222> (2080)..(2080)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2083)..(2083)

<223> n equals a,t,g, or c

<400> 498

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<210> 499

<211> 1501

<212> DNA

<213> Homo sapiens

<400> 499

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<210> 500
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 <212> DNA
 <213> Homo sapiens

<400> 500						
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<210> 501
 <211> 2460
 <212> DNA
 <213> Homo sapiens

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 <222> (172)..(172)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2457)..(2457)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

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ttgggcattc	cttccccaga	gagggcctgg	aaattataaa	tctctatcac	ataaggatta	2340
tatatttgaa	ctttttaagt	tgcctttagt	tttggtoctg	atttttcttt	ttacaattac	2400
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<210> 502

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (646)..(646)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (670)..(670)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (696)..(696)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (707)..(707)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (718)..(718)

<223> n equals a,t,g, or c

<400> 502

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ggttgtgtgt	gtggctgggt	gtcataaggt	cctttctggc	tctaataacc	tgagcttctg	180
ttatgaagct	gggaccctta	gagcctcagg	atgatcctct	gtttgtttgt	gaagccccaa	240
tcaggtgcta	agcaccatag	tggcacttag	ctgaagctcc	tctgtaactc	ctgtggggccc	300
tgccttgccc	acccccgaca	gctgctgcag	tgctcctgag	cagcacaggc	ctgatggagc	360
ttctggagaa	gatgctggcc	ctcaccttgg	caaaggcaga	ttctcccagg	actgcactcc	420
tctgctctgc	ctggctgctc	actgcctcct	tctctgcccc	gcagcacaag	ggcagtttgc	480
aggttcacca	gacactctct	gtggaaatgg	accargtatt	gaaggctctc	agctttccaa	540
agaaaaaggc	tgcactactc	tcaactgcca	tcttatgctt	cctgcggaca	gccctgcgac	600
aaagcttttc	ctctgcctgg	aaccctgggtg	cccttaaggg	cccagncaact	gcagccacca	660
aggacactgn	cctaacttca	ctgcgaatgt	ccaagnccgg	ccctggncat	tgggctgnaa	720
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<210> 503

<211> 935

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (6)..(6)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (14)..(14)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (16)..(16)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (50)..(50)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (95)..(95)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (101)..(101)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (139)..(139)

<223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (176)..(176)
 <223> n equals a,t,g, or c

<400> 503
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 taatgctttc cttggggana agccttgcca caaaagcttt ttcttctgc cctggnagcc 180
 ctggtgcctt caggggcca gccactgcca gccaccaagg acactgtcct agctccactg 240
 cgaatgtcgc aagtccggtc cctgggtcatt gggctgcaga acctcctggt gcagaaggac 300
 cctctattgt cccaggcctg tgttggtctgc ctggaggcct tgcttgacta cctggatgcc 360
 cggagcccag acattgctct ccacgtggcc tcccagcctt ggaatcgggt tttgctgttt 420
 accctcttgg atgctggaga gaattccttc ctacagacctg agattttgag gctcatgacc 480
 ctgtttatgc ggtaccggag tagcagtgtc ctctctcatg aagagggtgg tgatgttctg 540
 caagggtgtg ctttggctga cctgtctacc ctctcgaa ccacactcca ggccctgcat 600
 ggcttcttcc agcagctcca gagcatggga cacctggctg accacagcat ggccagacc 660
 ctgcaggcct ccttggaggg ccttccccct agcacctcct caggccagcc acccctgcag 720
 gacatgctct gcctgggagg ggtggctgta tccctgtccc acatcagaaa ctgacctca 780
 ggacttgaag gcccagaagt ggagagagaa tgagacctg agacaaaggg cataattgtt 840
 ggggaaatgg atgacagctg aagctattca tatggagcca tatactctat tgttgaaata 900
 gaataaggaa ataaaatgat acactcaca aaaaa 935

<210> 504
 <211> 871
 <212> DNA
 <213> Homo sapiens

<400> 504
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 aagggaagaa ctgcctccgc tgctggccag aactgtctgc ctgatatagac tatgacctgc 120
 agatcctctg ggtgacccca gggccacca cagaactttc tcaaagtatt cactccttgt 180
 tcttagagga taataatttt ctcaaacctt ggtaccttga tcttgacctt ttggaagaag 240
 aaacagccaa attcttctact caagtacacc aagccattaa aacgttacga gatgataaaa 300
 cagtacttct ggaagagatc tacacgcaca agaattctct tactgagagg ctgaataaga 360
 tatctgatgg gctgaaggag aaggagcccc acctctctcc atgaatgcct tcccggctcc 420
 atctcctact tgcacccag aacccttgg ctctgtctgc cctccccagc acctcagttt 480
 ctctaccttc tcacctccc tggcagcctg caatgagtc tggtccagga accggcgagc 540
 ctccctgtgg gctgtgagtc tcagcagtc tctactcctg gccatagctg gagatgtttc 600
 ttttactggc aaaggaagaa ggaggcagta aaggaacagg gcagcccga tgtcttccag 660
 aagtgaacag aggcgcagc taccaccgtc acaaagttca ctcatctctg ggtcccgtg 720
 accccatccc cccataccct ccactcctgg tctggggcc ccaaagctct gaggcctagg 780
 agactgcgct gtctcgtggt ttgcctatc ctacacctt gtaaagagtc tcttcattaa 840
 aaccctctt cataaaaaaa aaaaaaaaaa a 871

<210> 505
 <211> 881
 <212> DNA
 <213> Homo sapiens

<400> 505
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 acctgcagat cctctgggtg accccagggc caccacaga actttctcaa agtattcact 180
 ccttgttctt agaggataat aattttctca aaccctggt ccttgatcgt gaccatttg 240
 aagaagaaac agccaaattc ttactcag tacaccaagc cattaaaacg ttacgagatg 300
 ataaaacagt acttctggaa gagatctaca cgcacaagaa tctctttact gagaggctga 360

ataagatatc	tgatgggctg	aaggagaagg	gagccccacc	cytctccatg	aatgccttcc	420
cggctccatc	tcctacttgc	accccagaac	cccttggtct	tgtctgcctc	cccagcactc	480
cagtttctct	accttctcac	ctccctggca	gcctgcaatg	agtcctgtgc	caggaaccgg	540
cggacctccc	tgtgggctgt	gagtctcagc	agtgtcttac	tcctggccat	agctggagat	600
gtttctttta	ctggcaaagg	aagaaggagg	cagtaaagga	acagggcagc	ccgcatgtct	660
tccagaagtg	aacagaggcc	gagctacca	ccgtcacaaa	gttcactcat	ctctgggtcc	720
cggtgacccc	atccccccat	accctccatc	ctgggtcctg	gggccccaaa	gctctgaggc	780
ctaggagact	gcgctgtctc	gtggtttgcc	tactcctaca	cctttgtaaa	gagtctcttc	840
attaaaaccc	ctcttcataa	aaaaaaaaaa	aaaaaactcg	a		881

<210> 506
 <211> 632
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (537)..(537)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (579)..(579)
 <223> n equals a,t,g, or c

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gtggctctttg	tatcacaagt	tgaattttctc	actttgagta	gtagtgaagt	cactactgta	120
agagctgggtc	agtgaatgtg	gttgcagcat	ggcctttggg	caagaagtaa	cccatttaac	180
taaaaccagc	tggttggccc	cactcagatt	tatcaaaggg	ttactgggtc	cctgggggtg	240
gataattgctt	atattagact	tagaatagca	tactgtttta	atattatatg	aactaaaatg	300
tttcttttaaa	aaaagagtgg	tctgttaatg	gattttatgta	gtgggtcaaga	atttagactt	360
cagagtcaaaa	taaacctata	tcagtcctag	tcctacagtt	tactaattgt	gagatgkcaa	420
gcaagktttt	gaactcctct	aagcctctgk	tttcttatct	ataaattaat	aatgaatga	480
atcggttga	gtgaataatt	aagtaaaatc	ttaagacata	ctagttattg	gaactgnгаа	540
actgggtttt	ttgggaatgg	gtttcacatt	tgggaagtng	aaataccact	ttctaaaggt	600
ctggtttatc	tcaaattctct	atccaggcct	aa			632

<210> 507
 <211> 1433
 <212> DNA
 <213> Homo sapiens

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aggagtgtga	actcagtcct	ggtggaaaag	gaagtcgtgg	agggagggct	agggccgtgg	120
gggaactgct	ctgctgagcc	tcttcctcac	ctgctgcttc	ctaggactaa	cctgaaggct	180
aaggtaccag	gctgaagtca	gtgctcagaa	aaccaatcgt	cattcttttg	ggtttttttt	240
cttgaagagc	cactttctct	ttaccttggt	ctagcctggt	ggaggtaggg	tttctgcaat	300
tccaaaggcc	gtacacagcc	tctcaccatc	agaccacttt	taaggctct	tcgttcatac	360
ctagctcgaa	gattcacttc	ctcaggaagc	catttttagtt	acaaatctgg	gaaaacttaa	420
aatgctttca	ttgtgcatg	ttttctgttg	cagcttcagt	accgtacct	gtggtcaggc	480
atacttacaa	gtttcttttt	acagtaaccc	cttgtggaca	tctaataaat	ggtcattatt	540
ttttagtact	agtttgtttt	cctgaacact	gtaagatctg	tgactgacgt	ttgatacctt	600
aaagcagtg	catataataa	ctaccacta	tttgttcttt	atttctgtca	gataaaaaatg	660
ttctatgtag	tgtctacagt	catttttttt	ttaactagaa	tttagatttg	gaagtagttt	720
ttctattagt	tgatttgcatt	gaaatacaaa	attaggaaaa	ggcttatttc	acctcaacct	780

agttgaacta	ttaatgattt	tttttttttt	ttgaggattt	gggctctttc	tagatagaaa	840
atcacccctga	acttctagct	ttgcattgtg	aagtgagcat	catgaagatg	agaaaatggt	900
gggagatcat	ttttgcaaag	ggcataatag	tcggcattca	gatatgagtt	aactgcagag	960
ggaaaattgc	aagctgtcat	gttggccttg	ttcctctcaa	ccttctggta	acctaacaag	1020
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agatcttgct	ttcaaaccat	tattagccaa	gggtttgatt	ccacacctgt	gttcatggat	1140
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gttcatggct	gataaaaatt	acctgtcctt	aggccgagtg	cagtgcctca	cacctgtaat	1320
cccagcactt	tgggaggccg	aggtgagtag	atcacctgag	atcaggagtt	cgagaccagc	1380
ctggacaaca	agagcaaaac	tccatctcca	aaaaaaaaaa	aaaaaaaaact	cga	1433

<210> 508
 <211> 1369
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1351)..(1351)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1353)..(1354)
 <223> n equals a,t,g, or c

<400> 508	
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tcatcctcag	ccagcatctt ttgacacatt tgggagccgg cagataggaa gaggtatta 120
cgtgtttgac	tccaggtgga atcgacttcg ctgcgccctc aacctcatgg ggagaagca 180
tctgaatgca	cagctatggr agaaaatccc accagtgtccc agtaccacct caccatctc 240
cacacgtatt	cctcacccga caaactctgt gccgacatca caatgtggag tcagctatct 300
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tagcaaatcg	gtacagctc atggaaccac actaaatgca cagcctgctg cttcaggggc 420
gatggatcct	gtgtgcagta tgcaatccag acaagtgtcc tcttcatect catccccctc 480
gagccctct	ggccttttct cggttccttc ctcccccatg tccaggaaac ctcagaaatt 540
gaaatccagc	aaatctttga ggcccaagga gtcttctggt aacagacta actgtcaaaa 600
tgccagtagc	agtaccagtg gcggctcagg aaagaaacgc aaaaacagtt cccactgtt 660
ggttcactct	tctcctcctt ctctcctctc ctctcttctt tctcattcca tgggagtctt 720
ttaggaaaaa	ctgtgtggct cactctgggc ctccctaccc ctcaacggta acatcttccc 780
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tggatgaacag	cagtgattct actctttctc ttggggcatt cattcaccag tccaatgaac 960
tgccgtgtcaa	ctcccacggc agtttttccc actcacacactcctctagac aaactcatag 1020
gaaagaaaaag	aaagtgtcca cccagctcga gcagcatcaa caacagcagc agcaaaccca 1080
caaagggttgc	caaagtgccca gccrtgaaca atgtccacat gaaacacaca ggcaccatcc 1140
caggggcaca	aggactgatg aacagttccc tcttcatca ggtaggaaat ggactgtgag 1200
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ggttgggttg	gttgggttgg ttgtaaacag atattcagct tcatggtgtc ttcttaaaaa 1320
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<210> 509
 <211> 1598
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1067)..(1067)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1069)..(1069)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1577)..(1577)
 <223> n equals a,t,g, or c

<400> 509
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 tctgcctttr aaaatgcttc caaaagtaga ccctgtcccc acacaggtca agactacaga 180
 gaaggctttg tagaaatgtg tcacctatgt acacctgcta cttacacatt tcctcttttg 240
 gaaaaatgag atacttagaa taacargaaa attaagacat actggcctgg tgccagcaga 300
 tggcttttct atagacaaac taggttagtg tggaagatat aggttaaaat aaactatgct 360
 gttttattta tcttcccaac ctgattggca gctagacttt tttaggggtct atttaatgg 420
 ccctgttttt ttcattatta tatttaatga tagggcagga tttcgatgc aagctcttgt 480
 ttctcaggct gcctgcagaa gaagtcgcta taaattatct gttgtctaca tggtagaagg 540
 cccattgact catctgatgc ttgttttggt aatttcttta atatttttat cacggggcag 600
 tgggagggct tgggctttta gccacagctg ttttaagact tctgatctcc tgccctgcag 660
 gaataggttg gaagtcattg aatttttaca ctatagtaat ttgcattccc acataagttt 720
 gagtgttacg aaaacattcc tttaaaggga tctgtgctac acaaaatatg ccaggacctc 780
 acagacaaaag ccattgctag aaatgtcatt ccaatgatca gatctgaaa caggctgcca 840
 taaccatttg tccttcttgt agactcagct cacctgtata tttaaactgt tcttggcatc 900
 ttgaaacacc tatttctact caggactca ttgtcctggt actgattcac ctttctgatc 960
 cttttcaacc agttttcccc caagggggga aattttactt aacctctagt atttgaacaa 1020
 ctcaatattt gaattgttgc cccatttgct tttacctgta ctgtatncnt ggtcatctca 1080
 aatggcgtct aaaccagct actttgcatt ccagaagttt ccattccctc caattccacc 1140
 taatttttca tctgtcctag ttactggctc tttcttcatg tcttatttct cttgcttttg 1200
 gagcttaaaa gatttttaca gacctaatTT tgggttccttccttggagcc atagttaccc 1260
 tgccaagaag agtagaaaat ggggttcaact cctgtttcgc tccaccaaca cctctgtgag 1320
 tctcatcatc agctgagcga tgatgcctta cagggttgcag agcactggaa ctttcctaga 1380
 gtaacggctc tgctgccagg gtttctctgg gctcattctt ccactgactt aattatgatc 1440
 tatgcctaac agagccccag tacaactatt ttgcagaatg gctgttacct tagaattact 1500
 atagcacata ttgagatata gttgtactcc ctagtagata ggaactgacc ccaacaataa 1560
 actttgataa taaaganaaa aaaaaaaaaa actcgtag 1598

<210> 510
 <211> 530
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (517)..(517)
 <223> n equals a,t,g, or c

<400> 510
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 ctgaagacaa gggagcagtc cctgaagacg cttctactga gaggtctgcc atggcctctc 120

ttggcctcca	acttgtgggc	tacatcctag	gccttctggg	gcttttgggc	acactgggtg	180
ccatgctgct	ccccagctgg	aaaacaagtt	cttatgtcgg	tgccagcatt	gtgacagcag	240
ttggcttctc	caagggcctc	tgatggaat	gtgccacaca	cagcacaggc	atcacccagt	300
gtgacatcta	tagcacccct	ctgggcctgc	cgtgacat	ccaggctgcc	caggccatga	360
tggtgacatc	cagtgaatc	tcctccctgg	cctgcattat	ctctgtggtg	ggcatgagat	420
gcacagtctt	ctgccaggaa	tcccagacca	aagacagagt	ggcggtagca	ggtggagtct	480
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<210> 511
 <211> 1046
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (33)..(33)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (441)..(441)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (460)..(460)
 <223> n equals a,t,g, or c

<400> 511						
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agcttcagcc	tgcaagacaa	gggagcagtc	cctgaagacg	cttctactca	ccaagtgtgc	120
ctgacagcat	gaaattttgag	attggagagg	ctctttactt	gggcattatt	tcttccctgt	180
tctccctgat	akctggaatc	atcctctgct	tttctctgctc	atsccagaga	aatcgctcca	240
actactacga	tgcttaccaa	gcccacacctc	ttgccacaag	gagctctcca	aggcctggtc	300
aacctcccaa	agtcaagagt	gagttcaatt	cctacagcyt	gacaggggat	gtgtgaagaa	360
ccagggggcca	garctggggg	ktggctgggt	ctgtgaaaaa	cagtggacag	caccccgagg	420
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ctttggccat	tggtattgagc	aaaggcagaa	atggggggcta	gtgtaacagcat	gcaggttg	540
aattgccaag	gatgctcgcc	atgccagcct	ttctgttttc	ctcaccttgc	tgstcccctg	600
ccctaagtcc	ccaacctca	acttgaaacc	ccattccctt	aagccaggac	tcagaggatc	660
cctttgccct	ctggttttacc	tgggactcca	tccccaaacc	cactaatcac	atcccactga	720
ctgaccctct	gtgatcaaa	accctctctc	tggctgaggt	tggctcttag	ctcattgctg	780
gggatgggaa	ggagaagcag	tggcttttgt	gggcattgct	ctaacctact	tctcaagctt	840
ccctccaaag	aaactgattg	gccctggaac	ctccatccca	ctcttggtat	gactccacag	900
tgtccagact	aattttgtgca	tgaactgaaa	taaaaccatc	ctaggtatc	cagggaacag	960
aaagcaggat	gcaggatggg	aggacaggaa	ggcagcctgg	gacatttaaa	aaaaaaaaaa	1020
aaaaaactcg	aggggggggc	cgggtac				1046

<210> 512
 <211> 819
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (786)..(786)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (819)..(819)
 <223> n equals a,t,g, or c

<400> 512
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 actattctgg ctatatttat catagaacct aggaacctta gagttgacct gaatctaatt 180
 aaatttcaga cctcctggcc aaagacccta gtggaagagc aaaactaaat caacatatta 240
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<210> 513
 <211> 501
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(2)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n equals a,t,g, or c

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<210> 514
 <211> 1162
 <212> DNA
 <213> Homo sapiens

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tttgtcattt gcacactgct ggcttttact ttggggctgc accccgaggg aacaaatgca      180
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tctccttaaa tgcttcctgt gctgagcaaa cattccacag ccagcagagc aatggagagt      300
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1162

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<210> 515
<211> 1012
<212> DNA
<213> Homo sapiens

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gcaacctcct cccagtgcc tcctggatca agctagagac tgctggcacc ccaggaaatgt      600
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ggactggatg agccctgagc cagcttccac tctacctga atagagaact cactgcaccc      960
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1012

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<210> 516
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<212> DNA
<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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aaaaaaa						667

<210> 518
 <211> 2025
 <212> DNA
 <213> Homo sapiens

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agtccggggg	cgctgcgggt	tggggcgggg	gctgctcggc	cccgcgcggc	tccccgtcgc	240
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 <211> 1020
 <212> DNA
 <213> Homo sapiens

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<210> 520
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 <212> DNA
 <213> Homo sapiens

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<210> 521
<211> 2194
<212> DNA
<213> Homo sapiens

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<221> misc_feature
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<223> n equals a,t,g, or c

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<220>
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 <223> n equals a,t,g, or c

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aggtctctcc	tgcataaggca	gccactgtcc	gttctttcac	acactggaag	gaagagccat	960
cgtggtcttt	gtctggccac	aggccangct	gctgggcac	ctcctctcc	ttggagttcc	1020
acccctgsaa	ggcygatttg	ggggccatta	tctgagcagc	ttcaaagacc	cctgarctgc	1080
caaccacgga	gatgtgcca	gcatctcatc	tctcctgcac	actttagtca	gaaggacttc	1140
tgcattgcagt	ttgtctttct	gttctgcagg	cagcttcaga	attgaggtca	tttgtgagca	1200
caagatctca	tagggcaggt	gcaaaatagg	aatgttggtc	tcaagtgtca	cctccagccc	1260
agaggtgggt	ccttaggcag	catgtgctcc	tgggagcctc	tgacttttgc	tgggaagcacc	1320
cacagtttgg	aaggggcaag	acctcaacct	gttgggggtt	agggcccatg	atggcagaca	1380
ttctaccctt	tttcttgga	aaactggaag	aatgaaaatm	atttttttct	gtggaagaga	1440
gaaaatgagt	gaattatctt	ctcactttta	ttgatgcatt	cagagaataa	gcaatgaaat	1500
attaaaaaat	gaacatcat	ataggtcatc	atacttgaaa	attatcattc	catatgaaag	1560
gatcatgata	cacacaaaaa	aagtaatgat	cgtaaagaca	caaatcctct	gtatgccatc	1620
ttgcattggc	actgaggtgt	ttggttttga	atagggaaaa	agagacagga	tctcgctgtg	1680
ttccccaggt	aggtcttgaa	ctcctggcct	caagtgatcc	tcctgccttg	acctccaaa	1740
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cttttttttt	ttttttgaga	tggagcctca	ctctgttgcc	caggctggag	tgcagtggcg	1860
cgatctccac	tcactgcaag	ctccgcctcc	cgggttcata	ccattctcct	gcctcagcct	1920
cccgagtagc	tgggactaca	ggcgccctgcc	accacaccca	gctaattttt	tgtatttttt	1980
gtacagacag	ggtttccacc	tgtagccag	gatggtcttg	atctctgatc	tcngatccg	2040
nccaccccg	ccttccaaag	tgcttggatt	acaagcgtga	gccacccggg	ccccgccaag	2100
caagttgctt	cttatgcaac	natgttgggt	tggggacttg	gtccacgggg	cccaggccca	2160
ataaaaaatnc	tttaatccct	gcanaagagg	ccag			2194

<210> 522
 <211> 1315
 <212> DNA
 <213> Homo sapiens

<400> 522						
acgcgtccgg	acgccgccac	ctccggaaca	agccatggtg	gcggctacgg	tggcagcggc	60
gtggctgctc	ctgtgggctg	cggcctgctc	gcagcaggag	caggacttct	acgacttcaa	120
ggcggtaaac	atccggggca	aactggtgtc	gctggagaag	taccgcggat	cgggtgccct	180
ggtggtgaat	gtggccagcg	agtgcggctt	cacagaccag	cactaccgag	ccctgcagca	240
gctgcagcga	gacctgggccc	cccaccactt	caacgtgctc	gccttccccct	gcaaccagtt	300
tggccaacag	gagcctgaca	gcaacaagga	gattgagagc	tttgcccgcc	gcacctacag	360
tgtctcattc	cccatgttta	gcaagattgc	agtcaccggg	actggtgccc	atcctgcctt	420
caagtacctg	gcccagactt	ctgggaagga	gcccacctgg	aacttctgga	agtacctagt	480
agcccagat	ggaaagggtg	taggggcttg	ggacccaact	gtgtcagtgg	aggaggtcag	540
acccagatc	acagcgctcg	tgaggaagct	cactcctactg	aagcgagaag	acttataaac	600
accgcgtctc	ctcctccacc	acctcatccc	gcccacctgt	gtggggctga	ccaatgcaaa	660
ctcaaatggt	gcttcaaagg	gagagacca	ctgactctcc	ttcctttact	cttatgccat	720
tgggtcccatc	attcttgttg	gggaaaaatt	ctagtatttt	gattatttga	atcttacagc	780
aacaaatagg	aactcctggc	catgagagc	tcttgaccag	tgaatcacca	gccgatacga	840
acgtcttgcc	aacaaaaatg	tgtggcaaat	agaagtatat	caagcaataa	tctcccaccc	900
aaggcttctg	taaaactggga	ccaatgatta	cctcataagg	ctgttgtgag	gattaggatg	960
aaatacctgt	gaaagtgcct	aggcagtgcc	agccaaatag	gaggcattca	atgacattt	1020
tttgacata	aacaaaaaaa	taacttggtt	tcaataaaaa	cttgcatcca	acatgaattt	1080
ccagccgatg	ataatccagg	ccaaagggtt	agttgttggt	atttcctctg	tattattttc	1140
ttcattacaa	aagaaatgca	agttcattgt	aacaatccaa	acaatacctc	acgatataaa	1200
ataaaaaatga	aagtatctc	ctcaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1260
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaa	1315

<210> 523
 <211> 796
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> n equals a,t,g, or c

<400> 523						
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cgacccacgc	gtycggcaga	cacaggcact	tattcattca	tctcattgaa	aagctacgag	120
ttggttcctt	attgcctctc	cataatagaa	aaactcttta	atgagctctc	tttttgtttt	180
tcaaatcaga	tatgcaaaag	agctcataac	aatttttttt	aaaaatgcaa	aacaagaatc	240
tccaattatg	ggagcaaaat	cttcagcttc	tgggttcctg	tctcactgag	gaaatggatt	300
tgaatggca	aggaggaaat	gaggaggcaa	actttcatgt	ctatttttagt	tttccaatgc	360
agtcctattt	cctttggact	ttgtataaac	aaggaaagga	cagttgttg	ttcagttatt	420
acagataacc	tgtgtcttta	aagtaaatgt	atcttaataa	agtaggactc	ccataaatga	480
ctacactttt	tcaaaatgat	actccccagc	ttataacaag	aataatagca	aacatcactt	540

tattaagcaa	ttactatgta	aaagacactt	agtgccttagc	acacactgga	aatattgttg	600
actggctata	ttttccccag	aaatcccatt	tctgaaagcc	tattacaaag	aaataaaatc	660
atcagtataa	caaaggagtg	tgtgtgtgtg	tgggtgtgag	tgtgtgtggg	tgtgagtggtg	720
tgggggggtgt	gagtgtgtgt	ggggtgtgag	agtgtgtgtg	tgagtgtgag	tgtgtgtgtg	780
tgtaagtgca	cacacg					796

<210> 524
 <211> 734
 <212> DNA
 <213> Homo sapiens

<400> 524						
gctcgtgccc	ctgctgggca	ctgggagcag	ggggcggcca	aaggcagtg	gtgggcaggt	60
ccatgcctcc	cctggcccc	cagctctgca	gggcagtggt	cctggttcct	atcttgctgc	120
tgctgcaggt	gaagcctctg	aacgggagcc	caggcccca	agatgggagc	cagacagaga	180
aaacgccctc	tgacagaccg	aatcaagaac	agttcgaaga	gcactttgtg	gcctcctcag	240
tgggtgagat	gtggcaggtg	gtggacatgg	cccagcagga	agaagaccag	tcgtccaaga	300
cggcagctgt	tcacaagcac	tctttccacc	tcagcttctg	cttagtctg	gccagtgtca	360
tggtttttctc	aggaggggcca	ttgaggcgga	cattcccaaa	tatccaactc	tgcttcatgc	420
tcactcactg	accctccctc	cctcctgggc	tccaggtcac	aactcccaaa	ggagatgcag	480
gcatggctct	ctgcctctga	tcaccatcac	tgtatctcaa	ggttcagcag	cagagatacc	540
agttgccatc	agtgtctaact	gactgcctct	ccaggttcgg	agtttcatct	cccagggcca	600
gagacagcag	accacatcc	ttctctccca	cacctctcct	ggttttgttc	aggacagcag	660
attagaggca	ggaggcaatg	acaataaaat	aacgataaaa	tcctgagaac	aaaaaaaaaa	720
aaaaaaaaact	cgag					734

<210> 525
 <211> 1147
 <212> DNA
 <213> Homo sapiens

<400> 525						
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gactggacac	tgggctgctt	gagtcctgag	tcacaattca	gaattcctgg	gctccctggg	120
tgcattctat	cattccaggt	gaaagtttgc	ttccttccag	tcattgtggct	cttcattcta	180
ctctccttgg	ctctcatttc	agatgccatg	gtcatggatg	aaaagggtcaa	gagaagcttt	240
gtgctggaca	cggcttctgc	catctgcaac	tacaatggcc	actacaagaa	tcaccccaaa	300
tactggtgcc	gaggctattt	ccgtgactac	tgcaacaca	tcgccttctc	ccctaacagc	360
accaatcatg	tggccctgaa	ggacacaggg	aaccagctca	ttgtcactat	gtcctgcctg	420
aacaaagaag	acacgggctg	gtactgggtg	ggcatccagc	gggactttgc	cagggatgac	480
atggatttta	cagagctgat	tgtaactgac	gacaaaggaa	cctggccaat	gactttggtc	540
tgggaaagac	tatcaggcac	aaaaccagaa	gctgcaaggc	tcccaaagtt	gtccgcaagg	600
ctgaccgctc	caggacgtcc	attctcatca	tttgatact	gatcacgggt	ttgggaatca	660
tctctgtaat	cagtcatttg	accaaaagga	ggagaagtca	aagggaataga	agggtaggca	720
acactttgaa	gcccttctcg	cgtgtcctga	tccaaaagga	aatggctcct	actgaacaga	780
tgtgactgaa	gattttttta	atttagttca	taaagtgatg	ctacaacaga	ataatcacca	840
tgacaactgg	ccccacacct	cagagactga	ttctgatctc	ccagggaattc	tgaagggtccc	900
tctatccttg	acaacaatca	tttgacagca	ggtagcaacg	gcagtagtca	gaggagctat	960
gatagaccac	acccaagcaa	ggctgccctc	aaataacatc	tcaagatctt	agttcttatg	1020
cattccatca	gtcagaagtg	aagaagaggt	ggagaatctg	gattggggac	caggaaatca	1080
cttgatattt	gttagccaat	aaattcctag	ccagtgttga	atgaaaaaaaa	aaaaaaaaaa	1140
aaaaaaa						1147

<210> 526
 <211> 1134
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (418)..(418)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (803)..(803)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (816)..(816)
 <223> n equals a,t,g, or c

<400> 526
 acccattgag cagaaggagg ccagggtggga aagctcctgg gaagagcagc cagactggac 60
 actgggctgc ttgagtcctg agtcacaatt cagaattcct gggctccctg ggtgcattct 120
 atcattccag ttgaaagtgt gcttccttcc agtcatgtgg ctcttcattc tactctcctt 180
 ggctctcatt tcagatgcc a tggtcatgga tgaaaagggtc aagagaagtt tgtgctggac 240
 acggcttctg ccatctgcaa ctacaatgcc caytacaaga atcaccccaa atactggtgc 300
 cgaggytatt tccgtgayta ctgcaacatc atcgcttctt cccctaaag caccaatcat 360
 gtggccctga aggacacagg gaaccagctc attgtcacta tgtcctgcct gaacaaanaa 420
 gacacgggct ggtactggtg tggcatccar cgggactttg cmagggatga catggatttt 480
 acagagctga ttgtaactga cgacaaagga accctggcca atgacttttg gtctgggaaa 540
 gacctatcag gcaacaaaac cagaagctgc aagggtccca aagttgtccg caagctgacc 600
 gctccaggac gtccattctc atcattttgca tactgatcac gggtttgagg atcatctctg 660
 taatcagtca tttgacaaa aggaggagaa gtcaaaggaa tagaagggtg ggcaacactt 720
 tgaagccctt ctgcgctgtc ctgactccaa aggaaatggc tctactgaa cagatgtgac 780
 tgaagwtttt tttaatttag ttncataaag tgatgnctac aacagawtaa tcacccatga 840
 caactggccc cacacctcag agactgattc tgatctccca ggaattctga aggacctctt 900
 atccttgaca acaatcattt gcagccaggt agcaacggcr gtagtcagag gagctatgat 960
 agaccacacc caagcaaggc tgccctcaaa taacatctca agatcttagt tcttatgcat 1020
 tccatcagtc agaagtgaag aagaggtgga gaatctkgat tggggaccag gaaatcactt 1080
 gtattttgtt agccaataaa ttcctagcca gtgttgaatg aaaaaaaaaa aaaa 1134

<210> 527
 <211> 207
 <212> PRT
 <213> Homo sapiens

<400> 527
 Met Ile Lys His Val Ala Trp Leu Ile Phe Thr Asn Cys Ile Phe Phe
 1 5 10 15
 Cys Pro Val Ala Phe Phe Ser Phe Ala Pro Leu Ile Thr Ala Ile Ser
 20 25 30
 Ile Ser Pro Glu Ile Met Lys Ser Val Thr Leu Ile Phe Phe Pro Leu
 35 40 45
 Pro Ala Cys Leu Asn Pro Val Leu Tyr Val Phe Phe Asn Pro Lys Phe
 50 55 60
 Lys Glu Asp Trp Lys Leu Leu Lys Arg Arg Val Thr Lys Lys Ser Gly
 65 70 75 80

<222> (13)

<223> Xaa equals any of the naturally occurring amino acids

<400> 529

Met Ala Gly Pro Arg Ala Ser Thr Gly Pro Arg Pro Xaa Cys Leu Val
1 5 10 15

Leu Phe Leu Phe Asn Phe Ile Phe Cys Phe Met Ser Val Cys Pro Pro
20 25 30

Thr Pro Thr Pro Phe Ser Val Lys Trp Gly Ala Leu Gly Glu Ser Leu
35 40 45

Leu Pro Pro Ser Leu Ser Gln Asp Leu Pro Pro Arg His Gln Pro Ser
50 55 60

Leu Trp Thr Arg Gln Arg Ala Asp Arg Val Gly Arg Gly Leu Arg Val
65 70 75 80

Ala Arg Ala Ser Pro Pro Ala Asn Gly Pro Leu Leu Arg Pro Pro Val
85 90 95

Ser Pro Cys Pro Phe Leu Lys Gln Asn Ala Leu Val Cys Lys Pro Leu
100 105 110

Asp Ala

<210> 530

<211> 49

<212> PRT

<213> Homo sapiens

<400> 530

Met Arg Leu Cys Ser Phe Thr Lys Val Pro Met Asn Leu Phe Leu Asn
1 5 10 15

Val Ile Leu Leu Lys Phe Tyr Asn Phe Leu Phe Ser Leu Ile Leu Gly
20 25 30

Lys Ser Cys Leu Ala Ser Leu Gly Leu Cys Lys Asn Asn Lys Cys Leu
35 40 45

Ser

<210> 531

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 531
 Met Val Thr Gly Phe Phe Phe Ile Leu Met Thr Val Leu Trp Phe Xaa
 1 5 10 15
 Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys
 20 25 30
 Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu
 35 40 45
 Phe Leu Ile Pro Ala Xaa Glu Ala Leu Leu Trp Glu Lys Glu
 50 55 60

 <210> 532
 <211> 49
 <212> PRT
 <213> Homo sapiens

 <400> 532
 Gly Arg Lys Gly Gly Leu Ser Gly Thr SerPhe Phe Thr Trp Phe Met
 1 5 10 15
 Val Ile Ala Leu Leu Gly Val Trp Thr Ser Val Pro Val Val Trp Phe
 20 25 30
 Asp Leu Val Val Asp Glu Gln Ile Thr Ser GlnSer Lys Gly Leu Pro
 35 40 45
 Leu

 <210> 533
 <211> 300
 <212> PRT
 <213> Homo sapiens

 <400> 533
 Met Lys Phe Leu Leu Asp Ile Leu Leu Leu Leu Pro Leu Leu Ile Val
 1 5 10 15
 Cys Ser Leu Glu Ser Phe Val Lys Leu Phe Ile Pro Lys Arg Arg Lys
 20 25 30
 Ser Val Thr Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
 35 40 45

Gly Arg Leu Thr Ala Tyr Glu Phe Ala Lys Leu Lys Ser Lys Leu Val
 50 55 60
 Leu Trp Asp Ile Asn Lys His Gly Leu Glu Glu Thr Ala Ala Lys Cys
 65 70 75 80
 Lys Gly Leu Gly Ala Lys Val His Thr Phe Val Val Asp Cys Ser Asn
 85 90 95
 Arg Glu Asp Ile Tyr Ser Ser Ala Lys Lys Val Lys Ala Glu Ile Gly
 100 105 110
 Asp Val Ser Ile Leu Val Asn Asn Ala Gly Val Val Tyr Thr Ser Asp
 115 120 125
 Leu Phe Ala Thr Gln Asp Pro Gln Ile Glu Lys Thr Phe Glu Val Asn
 130 135 140
 Val Leu Ala His Phe Trp Thr Thr Lys Ala Phe Leu Pro Ala Met Thr
 145 150 155 160
 Lys Asn Asn His Gly His Ile Val Thr Val Ala Ser Ala Ala Gly His
 165 170 175
 Val Ser Val Pro Phe Leu Leu Ala Tyr Cys Ser Ser Lys Phe Ala Ala
 180 185 190
 Val Gly Phe His Lys Thr Leu Thr Asp Glu Leu Ala Ala Leu Gln Ile
 195 200 205
 Thr Gly Val Lys Thr Thr Cys Leu Cys Pro Asn Phe Val Asn Thr Gly
 210 215 220
 Phe Ile Lys Asn Pro Ser Thr Ser Leu Gly Pro Thr Leu Glu Pro Glu
 225 230 235 240
 Glu Val Val Asn Arg Leu Met His Gly Ile Leu Thr Glu Gln Lys Met
 245 250 255
 Ile Phe Ile Pro Ser Ser Ile Ala Phe Leu Thr Thr Leu Glu Arg Ile
 260 265 270
 Leu Pro Glu Arg Phe Leu Ala Val Leu Lys Arg Lys Ile Ser Val Lys
 275 280 285
 Phe Asp Ala Val Ile Gly Tyr Lys Met Lys Ala Gln
 290 295 300

<210> 534
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 534

Met Cys Tyr Leu Leu Leu Leu Ile Gln Thr Ala Glu Leu Leu Ile
 1 5 10 15
 His Pro Gln Gly Leu Gln Ala Val Ser Asn Gly Glu Ser Ala Leu Lys
 20 25 30
 Gly Thr Arg Pro Thr Phe Ser Ser Pro Phe Ile Leu Val Thr Glu Gly
 35 40 45
 Arg Lys Glu Trp Glu Gly Val Phe Leu Ser Ser Gly Trp Lys Gly Asn
 50 55 60
 Thr Leu Ser Asn Tyr Tyr Ile Ser Leu Val Phe Tyr Tyr Ser Arg Ile
 65 70 75 80
 Leu Gln Pro Tyr Phe Tyr Cys Leu Trp Gly Lys Leu Glu Met Val Thr
 85 90 95
 Leu Ile Arg Ser Val Trp Arg Gly Ile Asn Gly Gly Asp Lys Ile Gln
 100 105 110
 Leu Val Leu Glu Asn Val Lys Val Leu Lys
 115 120

<210> 535
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 535
 Met Glu His Leu Ile Arg Ser Gly Val Lys Ile Leu Phe Leu Asn Leu
 1 5 10 15
 Leu Leu Thr Ser Cys Thr Thr Leu Asn Glu Trp Leu Asn Phe Leu Val
 20 25 30
 Thr Leu Asn Cys Ser Arg Tyr Lys Met Thr Gly
 35 40

<210> 536
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 536
 Met Asn Leu Ser Ile Ile Leu Pro Asn Ser Phe Xaa His Leu Cys Asn
 1 5 10 15

Phe Ser Leu Phe Leu Leu Pro Leu Pro Val Pro Ser Gln Pro Leu Ile
 20 25 30
 Cys Ser Gly Asn Tyr Gln Ser Ser Phe Cys His Tyr Arg Leu Ile Cys
 35 40 45
 Ile Phe Lys Glu Ile Tyr Ile His Gly Thr Ile His His Leu Cys Phe
 50 55 60
 Val Val
 65

<210> 537
 <211> 140
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 537
 Met Phe Phe Ser Leu Pro Gly Leu Trp Gln Ile Ala Ser Phe Thr His
 1 5 10 15

Asn Leu Ile Phe His Leu Trp Val Trp Gly Ser Glu Ser Gly Glu His
 20 25 30

Leu Gln Ser His Asn Asp Pro Asp Thr Arg Gln Gly Gly His Ile Pro
 35 40 45

Ile Arg Leu Leu Gly Glu Ser Ser Ala Ser Val Pro Gly Ser Ser Gl
 50 55 60

Gly His Thr Gly Gly Pro Ala Pro Pro Arg Val Gly Gly Ser Ala Gly
 65 70 75 80

Ile Ile Arg Thr His Val Val Phe Leu Val Ser Trp Pro Leu Leu Gln
 85 90 95

Arg Glu Gln His Arg Leu Ser Trp Lys Leu Pro Ser Val Met Trp Gly
 100 105 110

Asp Ser Arg Glu Pro His Leu Ala Arg Leu Asp Gln Ser Lys Trp Pro

115 120 125
 Xaa Ala Thr Xaa Ala Xaa Gln Tyr Leu Gly Arg Gly
 130 135 140

<210> 538
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 538
 Met His Phe Phe Val Glu Ser Thr Ile Val Ser Asp Thr Leu Ile Thr
 1 5 10 15
 Leu Ser Asn Leu Thr Phe His Lys Cys Pro Glu Tyr Glu Asn Ile Ile
 20 25 30
 Gln Asp Leu Asn Thr Asn Tyr Gln Asn Leu Gln Leu Ser Asn Gly Arg
 35 40 45
 Leu Arg Phe Met Leu Cys His Val Phe Ser Ser Phe Leu Phe Val Met
 50 55 60
 Val Phe Gln Ile Val Glu Lys Glu Asn Ile Leu Phe Val Ile Ala Ser
 65 70 75 80
 Ala Ser Tyr Phe Cys Lys Thr Asn Tyr Ser Asn Ser Val Val
 85 90

<210> 539
 <211> 563
 <212> PRT
 <213> Homo sapiens

<400> 539
 Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser
 1 5 10 15
 Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly
 20 25 30
 Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln
 35 40 45
 Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys
 50 55 60
 Leu Gly Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys
 65 70 75 80
 Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro
 85 90 95

Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu
100 105 110
Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly
115 120 125
Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala
130 135 140
Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala
145 150 155 160
Met Gln Asn Arg Leu Pro Cys Ile Tyr Leu Val Asp Ser Gly Tyr Ala
165 170 175
Tyr Leu Pro Arg Gln Ala Asp Val Phe Pro Asp Arg Asp His Phe Gly
180 185 190
Arg Thr Phe Tyr Asn Gln Ala Ile Met Ser Ser Lys Asn Ile Ala Gln
195 200 205
Ile Ala Val Val Met Gly Ser Cys Thr Ala Gly Gly Ala Tyr Val Pro
210 215 220
Ala Met Ala Asp Glu Asn Ile Ile Val Arg Lys Gln Gly Thr Ile Phe
225 230 235 240
Leu Ala Gly Pro Pro Leu Val Lys Ala Ala Thr Gly Glu Glu Val Ser
245 250 255
Ala Glu Asp Leu Gly Gly Ala Asp Leu His Cys Arg Lys Ser Gly Val
260 265 270
Ser Asp His Trp Ala Leu Asp Asp His His Ala Leu His Leu Thr Arg
275 280 285
Lys Val Val Arg Asn Leu Asn Tyr Gln Lys Lys Leu Asp Val Thr Ile
290 295 300
Glu Pro Ser Glu Glu Pro Leu Phe Pro Ala Asp Glu Leu Tyr Gly Ile
305 310 315 320
Val Gly Ala Asn Leu Lys Arg Ser Phe Asp Val Arg Glu Val Ile Ala
325 330 335
Arg Ile Val Asp Gly Ser Arg Phe Thr Glu Phe Lys Ala Phe Tyr Gly
340 345 350
Asp Thr Leu Val Thr Gly Phe Ala Arg Ile Phe Gly Tyr Pro Val Gly
355 360 365
Ile Val Gly Asn Asn Gly Val Leu Phe Ser Glu Ser Ala Lys Lys Gly
370 375 380
Thr His Phe Val Gln Leu Cys Cys Gln Arg Asn Ile Pro Leu Leu Phe
385 390 395 400

<212> PRT

<213> Homo sapiens

<400> 541

Met	Thr	Val	Phe	Phe	Lys	Thr	Leu	Arg	Asn	His	Trp	Lys	Lys	Thr	Thr	
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Ala	Gly	Leu	Cys	Leu	Leu	Thr	Trp	Gly	Gly	His	Trp	Leu	Tyr	Gly	Lys	
			20					25					30			
His	Cys	Asp	Asn	Leu	Leu	Arg	Arg	Ala	Ala	Cys	Gln	Glu	Ala	Gln	Val	
		35					40					45				
Phe	Gly	Asn	Gln	Leu	Ile	Pro	Pro	Asn	Ala	Gln	Val	Lys	Lys	Ala	Thr	
	50					55					60					
Val	Phe	Ser	Ile	Leu	Gln	Leu	Ala	Lys	Glu	Lys	Pro	Gly	Leu	Tyr	Leu	
65					70					75					80	
Lys	Lys	Met	Leu	Pro	Asp	Phe	Thr	Phe	Ile	Trp	His	Gly	Cys	Asp	Tyr	
				85					90					95		
Cys	Lys	Thr	Asp	Tyr	Glu	Gly	Gln	Ala	Lys	Lys	Leu	Leu	Glu	Leu	Met	
			100					105					110			
Glu	Asn	Thr	Asp	Val	Ile	Ile	Val	Ala	Gly	Gly	Asp	Gly	Thr	Leu	Gln	
		115					120					125				
Glu	Val	Val	Thr	Gly	Val	Leu	Arg	Arg	Thr	Asp	Glu	Ala	Thr	Phe	Ser	
	130					135					140					
Lys	Ile	Pro	Ile	Gly	Phe	Ile	Pro	Leu	Gly	Glu	Thr	Ser	Ser	Leu	Ser	
145					150					155					160	
His	Thr	Leu	Phe	Ala	Glu	Ser	Gly	Asn	Lys	Val	Gln	His	Ile	Thr	Asp	
				165					170					175		
Ala	Thr	Leu	Ala	Ile	Val	Lys	Gly	Glu	Thr	Val	Pro	Leu	Asp	Val	Leu	
			180					185					190			
Gln	Ile	Lys	Gly	Glu	Lys	Glu	Gln	Pro	Val	Phe	Ala	Met	Thr	Gly	Leu	
		195					200					205				
Arg	Trp	Gly	Ser	Phe	Arg	Asp	Ala	Gly	Val	Lys	Val	Ser	Lys	Tyr	Trp	
	210					215					220					
Tyr	Leu	Gly	Pro	Leu	Lys	Ile	Lys	Ala	Ala	His	Phe	Phe	Ser	Thr	Leu	
225					230					235					240	
Lys	Glu	Trp	Pro	Gln	Thr	His	Gln	Ala	Ser	Ile	Ser	Tyr	Thr	Gly	Pro	
				245					250					255		
Thr	Glu	Arg	Pro	Pro	Asn	Glu	Pro	Glu	Glu	Thr	Pro	Val	Gln	Arg	Pro	
			260					265					270			
Ser	Leu	Tyr	Arg	Arg	Ile	Leu	Arg	Arg	Leu	Ala	Ser	Tyr	Trp	Ala	Gln	
		275					280					285				

Pro Gln Asp Ala Leu Ser Gln Glu Val Ser Pro Glu Val Trp Lys Asp
 290 295 300
 Val Gln Leu Ser Thr Ile Glu Leu Ser Ile Thr Thr Arg Asn Asn Gln
 305 310 315 320
 Leu Asp Pro Thr Ser Lys Glu Asp Phe Leu Asn Ile Cys Ile Glu Pro
 325 330 335
 Asp Thr Ile Ser Lys Gly Asp Phe Ile Thr Ile Gly Ser Arg Lys Val
 340 345 350
 Arg Asn Pro Lys Leu His Val Glu Gly Thr Glu Cys Leu Gln Ala Ser
 355 360 365
 Gln Cys Thr Leu Leu Ile Pro Glu Gly Ala Gly Gly Ser Phe Ser Ile
 370 375 380
 Asp Ser Glu Glu Tyr Glu Ala Met Pro Val Glu Val Lys Leu Leu Pro
 385 390 395 400
 Arg Lys Leu Gln Phe Phe Cys Asp Pro Arg Lys Arg Glu Gln Met Leu
 405 410 415
 Thr Ser Pro Thr Gln
 420

<210> 542
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 542
 Met Pro Ser Ser Trp Leu Pro Gly Cys Phe Val Leu Leu Cys Leu Val
 1 5 10 15
 Ala Val Gly Cys Gln Leu Arg Glu Trp Gly Val Gly Gly Val Ser Ala
 20 25 30
 Val Gly Leu Leu Ala Leu Pro His Leu Gln Val Leu Gly Met Arg Gly
 35 40 45
 Arg Gly Leu Ile Ser Gly Gly
 50 55

<210> 543
 <211> 242
 <212> PRT
 <213> Homo sapiens

<400> 543
 Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys

1	5	10	15
Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys	20	25	30
Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val	35	40	45
Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala	50	55	60
Leu Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile	65	70	75
Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser	85	90	95
Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala	100	105	110
Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr	115	120	125
Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu	130	135	140
Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly	145	150	155
Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala	165	170	175
Leu Ala Phe Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu	180	185	190
Ala Val Leu Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala	195	200	205
Tyr Trp His Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu	210	215	220
Leu Gly Glu Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr	225	230	235
Asp Gly			240

<210> 544
 <211> 189
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (94)

<223> Xaa equals any of the naturally occurring amino acids

<400> 544

Met Ala Leu Leu Ser Arg Pro Ala Leu Thr Leu Leu Leu Leu Leu Met
1 5 10 15
Ala Ala Val Val Arg Cys Gln Glu Gln Ala Gln Thr Thr Asp Trp Arg
20 25 30
Ala Thr Leu Lys Thr Ile Arg Asn Gly Val His Lys Ile Asp Thr Tyr
35 40 45
Leu Asn Ala Ala Leu Asp Leu Leu Gly Gly Glu Asp Gly Leu Cys Gln
50 55 60
Tyr Lys Cys Ser Asp Gly Ser Lys Pro Phe Pro Arg Tyr Gly Tyr Lys
65 70 75 80
Pro Ser Pro Pro Asn Gly Cys Gly Ser Pro Leu Phe Gly Xaa His Leu
85 90 95
Asn Ile Gly Ile Pro Ser Leu Thr Lys Cys Cys Asn Gln His Asp Arg
100 105 110
Cys Tyr Glu Thr Cys Gly Lys Ser Lys Asn Asp Cys Asp Glu Glu Phe
115 120 125
Gln Tyr Cys Leu Ser Lys Ile Cys Arg Asp Val Gln Lys Thr Leu Gly
130 135 140
Leu Thr Gln His Val Gln Ala Cys Glu Thr Thr Val Glu Leu Leu Phe
145 150 155 160
Asp Ser Val Ile His Leu Gly Cys Lys Pro Tyr Leu Asp Ser Gln Arg
165 170 175
Ala Ala Cys Arg Cys His Tyr Glu Glu Lys Thr Asp Leu
180 185

<210> 545

<211> 264

<212> PRT

<213> Homo sapiens

<400> 545

Met Leu Arg Cys Gly Gly Arg Gly Leu Leu Leu Gly Leu Ala Val Ala
1 5 10 15
Ala Ala Ala Val Met Ala Ala Arg Leu Met Gly Trp Trp Gly Pro Arg
20 25 30
Ala Gly Phe Arg Leu Phe Ile Pro Glu Glu Leu Ser Arg Tyr Arg Gly
35 40 45
Gly Pro Gly Asp Pro Gly Leu Tyr Leu Ala Leu Leu Gly Arg Val Tyr

50 55 60
 Asp Val Ser Ser Gly Arg Arg His Tyr Glu Pro Gly Ser His Tyr Ser
 65 70 75 80
 Gly Phe Ala Gly Arg Asp Ala Ser Arg Ala Phe Val Thr Gly Asp Cys
 85 90 95
 Ser Glu Ala Gly Leu Val Asp Asp Val Ser Asp Leu Ser Ala Ala Glu
 100 105 110
 Met Leu Thr Leu His Asn Trp Leu Ser Phe Tyr Glu Lys Asn Tyr Val
 115 120 125
 Cys Val Gly Arg Val Thr Gly Arg Phe Tyr Gly Glu Asp Gly Leu Pro
 130 135 140
 Thr Pro Ala Leu Thr Gln Val Glu Ala Ala Ile Thr Arg Gly Leu Glu
 145 150 155 160
 Ala Asn Lys Leu Gln Leu Gln Glu Lys Gln Thr Phe Pro Pro Cys Asn
 165 170 175
 Ala Glu Trp Ser Ser Ala Arg Gly Ser Arg Leu Trp Cys Ser Gln Lys
 180 185 190
 Ser Gly Gly Val Ser Arg Asp Trp Ile Gly Val Pro Arg Lys Leu Tyr
 195 200 205
 Lys Pro Gly Ala Lys Glu Pro Arg Cys Val Cys Val Arg Thr Thr Gly
 210 215 220
 Pro Pro Ser Gly Gln Met Pro Asp Asn Pro Pro His Arg Asn Arg Gly
 225 230 235 240
 Asp Leu Asp His Pro Asn Leu Ala Glu Tyr Thr Gly Cys Pro Pro Leu
 245 250 255
 Ala Ile Thr Cys Ser Phe Pro Leu
 260

<210> 546
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 546
 Met Pro Leu Phe Leu Phe Val Ala His Leu Ile Ser Leu Leu Leu Ala
 1 5 10 15
 Phe Arg Arg Pro Pro Ala Ser Gln Ile Thr Pro Arg Ala Trp Tr Thr
 20 25 30
 Glu Ile Ala Ser Cys Glu Ser Val Glu Met Val Lys Ala Leu Ser Ser
 35 40 45

Leu Arg Ser Arg Ala Gln Val Asn Ala Asp Phe Pro Gly His Leu Cys
 50 55 60

<210> 547
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 547
 Met Leu Val Ala Pro Phe Asn Leu Leu Phe Glu Met Ala Pro Phe Asn
 1 5 10 15
 Ile Phe Leu Phe Pro Gln Trp Gly Leu Leu Trp Leu Met Leu Tyr Leu
 20 25 30
 Leu Tyr Val Phe Gln Ala Ser Leu Arg Thr Pro Glu Leu Thr Trp Glu
 35 40 45
 Arg Val Arg Ser Gln Val Asp Gln
 50 55

<210> 548
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 548
 Met Leu Val Phe Leu Leu Leu Phe Ser Thr Val Thr Val Leu Cys Leu
 1 5 10 15
 Lys Val Val Phe Ser Leu Lys Ala Val Ala Tyr Ile Val Lys Asn Glu
 20 25 30
 Gly Leu Cys Leu Lys Phe Ile Ala Leu Gln Arg Val Val Ser Leu Lys
 35 40 45
 Ser Cys Thr Ile Lys
 50

<210> 549
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 549
 Met Asn Leu Leu Gly Met Ile Phe Ser Met Cys Gly Leu Met Leu Lys
 1 5 10 15

Leu Lys Trp Cys Ala Trp Val Ala Val Tyr Cys Ser Phe Ile Ser Phe
20 25 30
Ala Asn Ser Arg Ser Ser Glu Asp Thr Lys Gln Met Met Ser Ser Phe
35 40 45
Met

<210> 550
<211> 59
<212> PRT
<213> Homo sapiens

<400> 550
Met Asn Ser Thr Leu Cys Val Val Leu Ser Leu Met Cys Met Asn Ser
1 5 10 15
Thr Leu Cys Val Val Leu Ser Leu Thr His Ser Cys Pro Ser Pro Gln
20 25 30
Val Pro Lys Val His Tyr Met Ile Phe Met Pro Leu His Leu His Ser
35 40 45
Leu Ala Leu Thr Gln Leu Ile Ile Ile Tyr Lys
50 55

<210> 551
<211> 240
<212> PRT
<213> Homo sapiens

<400> 551
Met Gly Asn Cys Gln Ala Gly His Asn Leu His Leu Cys Leu Ala His
1 5 10 15
His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Leu Gly Leu
20 25 30
Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg Thr Gly Leu
35 40 45
Arg Ser Pro Asp Ile Pro Gln Asp Trp Val Ser Phe Leu Arg Ser Phe
50 55 60
Gly Gln Leu Thr Leu Cys Pro Arg Asn Gly Thr Val Thr Gly Lys Trp
65 70 75 80
Arg Gly Ser His Val Val Gly Leu Leu Thr Thr Leu Asn Phe Gly Asp
85 90 95
Gly Pro Asp Arg Asn Lys Thr Arg Thr Phe Gln Ala Thr Val Leu Gly

100					105					110					
Ser	Gln	Met	Gly	Leu	Lys	Gly	Ser	Ser	Ala	Gly	Gln	Leu	Val	Leu	Ile
		115					120					125			
Thr	Ala	Arg	Val	Thr	Thr	Glu	Arg	Thr	Ala	Gly	Thr	Cys	Leu	Tyr	Phe
		130					135					140			
Ser	Ala	Val	Pro	Gly	Ile	Leu	Pro	Ser	Ser	Gln	Pro	Pro	Ile	Ser	Cys
		145					150					155			
Ser	Glu	Glu	Gly	Ala	Gly	Asn	Ala	Thr	Leu	Ser	Pro	Arg	Met	Gly	Glu
				165					170					175	
Glu	Cys	Val	Ser	Val	Trp	Ser	His	Glu	Gly	Leu	Val	Leu	Thr	Lys	Leu
			180					185					190		
Leu	Thr	Ser	Glu	Glu	Leu	Ala	Leu	Cys	Gly	Ser	Arg	Leu	Leu	Val	Leu
		195					200					205			
Gly	Ser	Phe	Leu	Leu	Leu	Phe	Cys	Gly	Leu	Leu	Cys	Cys	Val	Thr	Ala
		210					215					220			
Met	Cys	Phe	His	Pro	Arg	Arg	Glu	Ser	His	Trp	Ser	Arg	Thr	Arg	Leu
							230					235			240

<210> 552
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 552
 Met Leu Leu Leu Leu Lys Thr Leu Phe Val Thr Phe Trp Ser Thr Asn
 1 5 10 15
 Leu Ser Ile Thr Phe Ser Asn Tyr Asn Val Lys Leu Tyr Gln Trp Gln
 20 25 30
 Ser Tyr Ile Val Asn Gly Ser
 35

<210> 553
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 553
 Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
 1 5 10 15

Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
 20 25 30
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
 35 40 45
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
 50 55 60
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys
 65 70 75 80
 Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys
 85 90 95
 Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His
 100 105 110
 His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro
 115 120 125
 Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala Ser Phe Ile Gly
 130 135 140
 Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu
 145 150 155 160
 His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu Ile
 165 170

<210> 554
 <211> 245
 <212> PRT
 <213> Homo sapiens

<400> 554
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65 70 75 80
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
 85 90 95
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln

100	105	110
Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly		
115	120	125
Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr		
130	135	140
Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr		
145	150	155
Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val		
165	170	175
Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr		
180	185	190
Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln		
195	200	205
Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly		
210	215	220
His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu		
225	230	235
Ile Phe Pro Ser Ala		
245		

<210> 555
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 555
Met Tyr Leu Phe Leu Lys Thr Leu Leu Ser Phe Ser Thr Leu Met Met
1 5 10 15
Thr Thr Ala Leu Ser Phe Met Val Ile Thr Val Leu Trp Val Leu Leu
20 25 30
Leu His Leu Leu Ala Asn Ile Cys Ile Pro Arg Lys Cys Ser Phe Ala
35 40 45
Cys Phe Tyr Ile Asn Gly Ile Leu Leu His Ala Val Phe
50 55 60

<210> 556
 <211> 54
 <212> PRT
 <213> Homo sapiens
 <400> 556

Met Val Leu Ser Pro Trp Ala Cys Leu Phe Val Val Phe Phe Pro Tyr
 1 5 10 15
 Ile Gln Ser Ser Leu Arg Ser Asp Lys His Leu Gln Leu Ser Asn Ile
 20 25 30
 Leu Pro Thr Pro Ser His His Ile His Leu Pro Ala Ser Ile Cys Ile
 35 40 45
 Gln Leu Arg Ala Gly Asn
 50

<210> 557
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 557
 Met Leu Ser Leu Phe Phe Cys Phe Trp Lys Pro Ser Phe Leu Val Ser
 1 5 10 15
 Arg Leu Val Ile Trp Leu Gly Leu Val Cys Gly Gly Arg Ser Leu Ser
 20 25 30
 Trp Val Ala Leu Gly Glu Asp Tyr Leu Gly Thr Pro Ile Leu Ile Pro
 35 40 45
 Asn Ile His Gln Thr Cys Pro His Pro Pro Leu Trp Glu Leu Val Pro
 50 55 60
 Glu His Pro Cys Arg Leu Val Leu Ile Phe Ser Leu Cys Glu His Thr
 65 70 75 80
 His Ile Arg

<210> 558
 <211> 319
 <212> PRT
 <213> Homo sapiens

<400> 558
 Met Ser Trp Cys Cys Leu Trp Leu Cys Leu Ser Ser Val Gly Arg Thr
 1 5 10 15
 Gly Ser Ala Gly Pro Ser Leu Pro Phe Ser Glu Leu Cys Ser Leu Gly
 20 25 30
 Leu Leu Arg Leu Arg Pro Val Phe Ser Pro Leu His Ser Gly Pro Gly
 35 40 45
 Lys Pro Ala Gln Phe Leu Ala Gly Glu Ala Glu Glu Val Asn Ala Phe
 50 55 60

Ala Leu Gly Phe Leu Ser Thr Ser Ser Gly Val Ser Gly Glu Asp Glu
 65 70 75 80
 Val Glu Pro Leu His Asp Gly Val Glu Glu Ala Glu Lys Lys Met Glu
 85 90 95
 Glu Glu Gly Val Ser Val Ser Glu Met Glu Ala Thr Gly Ala Gln Gly
 100 105 110
 Pro Ser Arg Val Glu Glu Ala Glu Gly His Thr Glu Val Thr Glu Ala
 115 120 125
 Glu Gly Ser Gln Gly Thr Ala Glu Ala Asp Gly Pro Gly Ala Ser Ser
 130 135 140
 Gly Asp Glu Asp Ala Ser Gly Arg Ala Ala Ser Pro Glu Ser Ala Ser
 145 150 155 160
 Ser Thr Pro Glu Ser Leu Gln Ala Arg Arg His His Gln Phe Leu Glu
 165 170 175
 Pro Ala Pro Ala Pro Gly Ala Ala Val Leu Ser Ser Glu Pro Ala Glu
 180 185 190
 Pro Leu Leu Val Arg His Pro Pro Arg Pro Arg Thr Thr Gly Pro Arg
 195 200 205
 Pro Arg Gln Asp Pro His Lys Ala Gly Leu Ser His Tyr Val Lys Leu
 210 215 220
 Phe Ser Phe Tyr Ala Lys Met Pro Met Glu Arg Lys Ala Leu Glu Met
 225 230 235 240
 Val Glu Lys Cys Leu Asp Lys Tyr Phe Gln His Leu Cys Asp Asp Leu
 245 250 255
 Glu Val Phe Ala Ala His Ala Gly Arg Lys Thr Val Lys Pro Glu Asp
 260 265 270
 Leu Glu Leu Leu Met Arg Arg Gln Gly Leu Val Thr Asp Gln Val Ser
 275 280 285
 Leu His Val Leu Val Glu Arg His Leu Pro Leu Glu Tyr Arg Gln Leu
 290 295 300
 Leu Ile Pro Cys Ala Tyr Ser Gly Asn Ser Val Phe Pro Ala Gln
 305 310 315

<210> 559
 <211> 336
 <212> PRT
 <213> Homo sapiens

<400> 559

Met Ile Ser Tyr Ile Val Leu Leu Ser Ile Leu Leu Trp Pro Leu Val
1 5 10 15
Val Tyr His Glu Leu Ile Gln Arg Met Tyr Thr Arg Leu Glu Pro Leu
20 25 30
Leu Met Gln Leu Asp Tyr Ser Met Lys Ala Glu Ala Asn Ala Leu His
35 40 45
His Lys His Asp Lys Arg Lys Arg Gln Gly Lys Asn Ala Pro Pro Gly
50 55 60
Gly Asp Glu Pro Leu Ala Glu Thr Glu Ser Glu Ser Glu Ala Glu Leu
65 70 75 80
Ala Gly Phe Ser Pro Val Val Asp Val Lys Lys Thr Ala Leu Ala Leu
85 90 95
Ala Ile Thr Asp Ser Glu Leu Ser Asp Glu Glu Ala Ser Ile Leu Glu
100 105 110
Ser Gly Gly Phe Ser Val Ser Arg Ala Thr Thr Pro Gln Leu Thr Asp
115 120 125
Val Ser Glu Asp Leu Asp Gln Gln Ser Leu Pro Ser Glu Pro Glu Glu
130 135 140
Thr Leu Ser Arg Asp Leu Gly Glu Gly Glu Glu Gly Glu Leu Ala Pro
145 150 155 160
Pro Glu Asp Leu Leu Gly Arg Pro Gln Ala Leu Ser Arg Gln Ala Leu
165 170 175
Asp Ser Glu Glu Glu Glu Glu Asp Val Ala Ala Lys Glu Thr Leu Leu
180 185 190
Arg Leu Ser Ser Pro Leu His Phe Val Asn Thr His Phe Asn Gly Ala
195 200 205
Gly Ser Pro Gln Asp Gly Val Lys Cys Ser Pro Gly Gly Pro Val Glu
210 215 220
Thr Leu Ser Pro Glu Thr Val Ser Gly Gly Leu Thr Ala Leu Pro Gly
225 230 235 240
Thr Leu Ser Pro Pro Leu Cys Leu Val Gly Ser Asp Pro Ala Pro Ser
245 250 255
Pro Ser Ile Leu Pro Pro Val Pro Gln Asp Ser Pro Gln Pro Leu Pro
260 265 270
Ala Pro Glu Glu Glu Glu Ala Leu Thr Thr Glu Asp Phe Glu Leu Leu
275 280 285
Asp Gln Gly Glu Leu Glu Gln Leu Asn Ala Glu Leu Gly Leu Glu Pro
290 295 300

Glu Thr Pro Pro Lys Pro Pro Asp Ala Pro Pro Leu Gly Pro Asp Ile
 305 310 315 320

His Ser Leu Val Gln Ser Asp Gln Glu Ala Gln Ala Val Ala Glu Pro
 325 330 335

<210> 560
 <211> 272
 <212> PRT
 <213> Homo sapiens

<400> 560
 Met Trp Gly Asn Lys Phe Gly Val Leu Leu Phe Leu Tyr Ser Val Leu
 1 5 10 15

Leu Thr Lys Gly Ile Glu Asn Ile Lys Asn Glu Ile Glu Asp Ala Ser
 20 25 30

Glu Pro Leu Ile Asp Pro Val Tyr Gly His Gly Ser Gln Ser Leu Ile
 35 40 45

Asn Leu Leu Leu Thr Gly His Ala Val Ser Asn Val Trp Asp Gly Asp
 50 55 60

Arg Glu Cys Ser Gly Met Lys Leu Leu Gly Ile His Glu Gln Ala Ala
 65 70 75 80

Val Gly Phe Leu Thr Leu Met Glu Ala Leu Arg Tyr Cys Lys Val Gly
 85 90 95

Ser Tyr Leu Lys Ser Pro Lys Phe Pro Ile Trp Ile Val Gly Ser Glu
 100 105 110

Thr His Leu Thr Val Phe Phe Ala Lys Asp Met Ala Leu Val Ala Pro
 115 120 125

Glu Ala Pro Ser Glu Gln Ala Arg Arg Val Phe Gln Thr Tyr Asp Pro
 130 135 140

Glu Asp Asn Gly Phe Ile Pro Asp Ser Leu Leu Glu Asp Val Met Lys
 145 150 155 160

Ala Leu Asp Leu Val Ser Asp Pro Glu Tyr Ile Asn Leu Met Lys Asn
 165 170 175

Lys Leu Asp Pro Glu Gly Leu Gly Ile Ile Leu Leu Gly Pro Phe Leu
 180 185 190

Gln Glu Phe Phe Pro Asp Gln Gly Ser Ser Gly Pro Glu Ser Phe Thr
 195 200 205

Val Tyr His Tyr Asn Gly Leu Lys Gln Ser Asn Tyr Asn Glu Lys Val

210	215	220	
Met Tyr Val Glu Gly Thr Ala Val Val Met Gly Phe Glu Asp Pro Met			
225	230	235	240
Leu Gln Thr Asp Asp Thr Pro Ile Lys Arg Cys Leu Gln Thr Lys Trp			
	245	250	255
Pro Tyr Ile Glu Leu Leu Trp Thr Thr Asp Arg Ser Pro Ser Leu Asn			
	260	265	270

<210> 561
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 561
 Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Val Leu Leu Leu Gln Ala Gly Leu Asn Thr
 20 25 30
 Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln
 35 40 45
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly
 50 55 60
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Asp Lys Glu Lys Ala Trp
 65 70 75 80
 Arg Ala Val Val Val Gln Met Ala Gln
 85

<210> 562
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 562
 Met Tyr Leu Met Ser Phe Ser Ile His Phe Val Lys Ile Ile Cys Met
 1 5 10 15
 Cys Thr Ile Leu Val Leu Ser Pro Pro Val Leu Leu Lys Tyr Gln Asp
 20 25 30
 Ser Thr Pro Arg Pro Leu Trp Ser Gln Cys Lys Ile Pro Ile Asn Tyr
 35 40 45

Leu Lys Gly Lys
50

<210> 563
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 563
Met Ala Gln His His Leu Leu Ser Ile Leu Leu Ala Ile Leu Ser Cys
1 5 10 15
Ser Ser Gln Pro Arg Gln Xaa Arg Gly Ser Gly Ala Leu Pro Cys Glu
20 25 30
Val Cys Ser Ala Val Leu Leu Thr Cys Leu Arg Lys Ile Ser Gly Ser
35 40 45
Leu Cys Val
50

<210> 564
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring amino acids

<400> 564
Met Ser Asn Thr Leu Leu Ser Gln Trp Leu Leu Leu Leu Thr Leu Phe
1 5 10 15
Lys Cys Ile Ile Leu Pro Leu Asn Leu Xaa Pro Ile Ile Arg Thr Ile
20 25 30
Pro Asp Trp Ser Pro Glu Leu Gly Thr Asn Thr
35 40

<210> 565
<211> 74
<212> PRT
<213> Homo sapiens

<400> 565

Met Leu His Leu Ala Ala Met Trp Trp Ala Cys Val Thr Thr Leu Val
1 5 10 15
Phe Thr Leu Val Ser Lys Leu Phe Ile Pro Leu Lys Ser Ser Met Asp
20 25 30
Gly Glu Met Ser Leu Asp Pro His Ser Cys Val Leu Val Cys Ile Cys
35 40 45
Phe Pro Leu Arg Phe Val Phe Val Ser Cys Phe Glu Leu Tyr Leu Val
50 55 60
Gln Ser Ile Val Lys Leu Ser Gln Gln Leu
65 70

<210> 566

<211> 169

<212> PRT

<213> Homo sapiens

<400> 566

Met Leu Ala Gly Ala Gly Arg Pro Gly Leu Pro Gln Gly Arg His Leu
1 5 10 15
Cys Trp Leu Leu Cys Ala Phe Thr Leu Lys Leu Cys Gln Ala Glu Ala
20 25 30
Pro Val Gln Glu Glu Lys Leu Ser Ala Ser Thr Ser Asn Leu Pro Cys
35 40 45
Trp Leu Val Glu Glu Phe Val Val Ala Glu Glu Cys Ser Pro Cys Ser
50 55 60
Asn Phe Arg Ala Lys Thr Thr Pro Glu Cys Gly Pro Thr Gly Tyr Val
65 70 75 80
Glu Lys Ile Thr Cys Ser Ser Ser Lys Arg Asn Glu Phe Lys Ser Leu
85 90 95
Pro Leu Ser Phe Asp Gly Thr Thr Leu Ile Leu Glu Val Arg Arg Gly
100 105 110
Cys Arg Val Cys Gly Pro Asp Leu Arg Leu Ser Cys His His Ser Ser
115 120 125
Ala Thr Ile Gly Gln Lys Gly Ser Gly Lys Gly Pro Glu Ala Asn Arg
130 135 140
Val His Ile Ala Thr Phe His Pro Cys Ile Leu Gly Leu Arg Asp Pro
145 150 155 160
Ile Ser Asp Ser Glu Ser Glu Met Asp
165

<210> 567
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 567
 Met Gly Gln Val Trp Arg Val Pro Pro Leu Leu Leu Ser Val Gln Val
 1 5 10 15
 Phe Leu Thr Met Ala His Ala Phe His Gln Ala Pro Glu Leu Gln Trp
 20 25 30
 Leu Gly Leu Trp Phe Trp Val Arg Leu Phe Ala Gly Gly Asp Gly Gly
 35 40 45
 Leu His Leu Asn Ile Ser Ser Val Thr Leu Pro Leu Leu His Gly Lys
 50 55 60
 Gln Leu Ser Arg Glu Val Pro Ser Cys Gln Gly Lys Pro Arg Leu Gly
 65 70 75 80
 Arg Pro Pro Tyr Lys Glu Pro Gln Asp Cys Ser His Gly Cys His Leu
 85 90 95
 Ser Trp Lys Gly Arg Phe Met Gly Phe Pro Gly Thr Pro Arg Leu Ser
 100 105 110
 Trp Pro Arg Gly Lys Arg Trp Leu Leu Gln Glu Phe Asp Leu Ser
 115 120 125

<210> 568
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 568
 Met Ser Ala Leu Ser Phe Thr Ser Tyr Phe Leu LeuLeu Leu Arg Val
 1 5 10 15
 Lys Pro Val Glu Val Ser Gly Ser Ile Pro His Pro Glu Gln Pro Asn
 20 25 30
 Val Leu Cys Leu Val Leu Pro Thr Phe Gly Tyr
 35 40

<210> 569
 <211> 215
 <212> PRT
 <213> Homo sapiens

<220>

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<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 569
Met Tyr Gly Lys Ser Ser Thr Arg Ala Val Leu Leu Leu Leu Gly Ile
 1          5          10          15

Gln Leu Thr Ala Leu Trp Pro Ile Ala Ala Val Glu Ile Tyr Thr Ser
 20          25          30

Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu Lys Cys Thr
 35          40          45

Phe Ser Ser Phe Ala Pro Val Gly Asp Ala Leu Thr Val Thr Trp Asn
 50          55          60

Phe Arg Pro Leu Asp Gly Gly Pro Glu Gln Phe Val Phe Tyr Tyr His
 65          70          75          80

Ile Asp Xaa Phe Gln Pro Met Ser Gly Arg Phe Lys Asp Arg Val Ser
 85          90          95

Trp Asp Gly Asn Pro Glu Arg Tyr Asp Ala Ser Ile Leu Leu Trp Lys
100          105          110

Leu Gln Phe Asp Asp Asn Gly Thr Tyr Thr Cys Gln Val Lys Asn Pro
115          120          125

Pro Asp Val Asp Gly Val Ile Gly Asp Ile Arg Leu Xaa Val Val His
130          135          140

Thr Val Arg Phe Ser Glu Ile His Phe Leu Ala Leu Ala Ile Gly Ser
145          150          155          160

Ala Cys Ala Leu Met Ile Ile Ile Val Ile Val Val Val Leu Phe Gln
165          170          175

His Tyr Arg Lys Lys Arg Trp Ala Glu Arg Ala His Lys Val Val Glu
180          185          190

Ile Lys Ser Lys Glu Glu Glu Arg Leu Asn Gln Glu Lys Lys Val Ser
195          200          205

Val Tyr Leu Glu Asp Thr Asp
210          215

<210> 570
<211> 60
<212> PRT

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<213> Homo sapiens

<400> 570

```
Met Leu Tyr Trp Gly Asn Val Ala Leu Val Leu Pro Thr Pro Tyr Leu
 1              5              10              15
His Leu Ser Leu Thr Leu Leu Leu Ser Pro Glu Trp Leu Gly Glu Met
      20              25              30
Gly Arg Gly Leu Pro Trp Pro Gly His Leu Val Ala Ala Trp Leu Asp
      35              40              45
His Ile Ala Asn Glu Leu Gly Arg Gly Ala Ile Phe
      50              55              60
```

<210> 571

<211> 64

<212> PRT

<213> Homo sapiens

<400> 571

```
Met Asn Ala Ser Cys Ser Leu Ala His Phe Glu His Ser Gly Met Ser
 1              5              10              15
Val Leu Leu Val His Leu Phe Ile Ile Val Ser Thr Val Pro Ser Cys
      20              25              30
Phe Lys Lys Tyr Met Ala Phe Ile Ile Tyr Pro Ala Phe Ser Cys His
      35              40              45
Phe Asn Lys Ser Met Cys Leu Ile Gln Leu Leu His Ser Ser Gln Lys
      50              55              60
```

<210> 572

<211> 79

<212> PRT

<213> Homo sapiens

<400> 572

```
Met Ala Cys Leu Gly Gly Leu Leu Gly Ile Ile Gly Val Ile Cys Leu
 1              5              10              15
Ile Ser Cys Leu Ser Pro Glu Met Asn Cys Asp Gly Gly His SerTyr
      20              25              30
Val Arg Asn Tyr Leu Gln Lys Pro Thr Phe Ala Leu Gly Glu Leu Tyr
      35              40              45
Pro Pro Leu Ile Asn Leu Trp Glu Ala Gly Lys Glu Lys Ser Thr Ser
      50              55              60
```

Leu Lys Val Lys Ala Thr Val Ile Gly Leu Pro Thr Asn Met Ser
 65 70 75

<210> 573
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 573
 Met Phe Tyr Pro Pro Cys Pro Phe Phe Pro Gln Leu Cys Phe Cys Ile
 1 5 10 15
 Phe Phe Leu Gly Lys Cys Lys Leu Ser Leu Ser Phe Met Thr Cys Glu
 20 25 30
 Ile Ser Val Ser Leu Glu Phe Val Arg Arg Arg Gly Asn His Ala
 35 40 45

<210> 574
 <211> 100
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 574
 Met Gly Met Ile Leu Val Leu Ala Ser Phe Leu Ala His Pro Val Glu
 1 5 10 15
 Ala Leu Ala Gln Ala Val Ala Leu Gly Gln Gln Gln Leu Ala Leu Leu
 20 25 30
 Gly Val Gln Xaa His Ala Val Glu Gly Phe Leu Gln Leu Gln Xaa Cys
 35 40 45

Phe Ala Xaa Leu Phe Val Phe Glu Gly Ala Leu Leu Ala His Leu Gly
 50 55 60
 His Phe Phe Val Glu Pro Gly Ala Ala Gln Gly Gln Leu Leu Asp Leu
 65 70 75 80
 Gly Leu Xaa Arg Arg Glu Leu Gly Phe Gln Phe Ala Leu Leu Ala Arg
 85 90 95
 Phe Val Leu Gln
 100

<210> 575
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 575
 Met Gly Leu Phe Leu Phe Leu Val Ser Ser
 1 5 10

<210> 576
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 576
 Met Ile Ile Leu His Ile Val Val Cys Leu Phe Thr Ile Ser Ile Ile
 1 5 10 15
 Glu Glu Gln Lys Glu Glu Ile Leu Cys Ser Thr Lys Ser Gln Ala Glu
 20 25 30
 Lys Thr Val Thr His Ile Glu Gln
 35 40

<210> 577
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 577
 Met Leu Ser Pro Lys Ser Pro Arg Met Leu Leu Pro Cys Leu Leu Gln
 1 5 10 15
 Pro Leu Val Val Ala Asn Ile Pro Arg Val Pro Trp Leu Ala Asp Glu
 20 25 30
 Ser Leu Asn Pro Thr Pro Ile Ile Thr Trp Gln Ser Pro Cys Val Ala
 35 40 45

Gln Leu Cys Pro Asn Phe Pro Phe Pro Thr Arg Thr Leu Val Thr Gly
 50 55 60

Leu
 65

<210> 578
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 578
 Met Gly Ala Ala Lys Val Trp Gly Glu Val Gly Arg Trp Leu Val Ile
 1 5 10 15
 Ala Leu Ile Gln Leu Ala Lys Ala Val Leu Arg Met Leu Leu Leu Leu
 20 25 30
 Trp Phe Lys Ala Gly Leu Gln Thr Ser Pro Pro Ile Val Pro Leu Asp
 35 40 45
 Arg Glu Thr Arg His Ser Pro Arg Met Val Thr Thr Ala Xaa Xaa Thr
 50 55 60
 Met Ser Ser Pro Thr Trp Gly Ser Gly Gln Thr Gly Trp Cys Glu Pro
 65 70 75 80
 Ser Arg Thr Arg Arg Pro Cys Thr Pro Gly Thr Gly Glu Leu Pro Ser
 85 90 95
 Ser Gly Arg Asp Gly Ser Ser Ser Ile Thr Arg Ser
 100 105

<210> 579
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 579
 Met Asn Gln Leu Met Phe Gln Asp Leu Leu Cys Cys Leu Cys Leu Phe
 1 5 10 15

Val Ile Gly Leu Ile Ser Leu Leu Arg Lys Thr Tyr Ser Cys Val Asn
20 25 30
Leu Cys Lys Val Met Leu Pro Val Lys Lys Tyr Ser Thr Val Ser Thr
35 40 45
Val Leu Cys Arg Asn Met Lys Leu Asn Gly Lys Asn Val Leu Met Phe
50 55 60
Val Val Met Leu Leu Gly Gln Trp Met Gly Lys Leu Pro Lys Leu Ser
65 70 75 80
Pro

<210> 580
<211> 941
<212> PRT
<213> Homo sapiens

<400> 580
Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr MetSer Phe Leu
1 5 10 15
Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys
20 25 30
Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr ProPhe Pro
35 40 45
Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp
50 55 60
Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr
65 70 75 80
Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His
85 90 95
Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly
100 105 110
Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln
115 120 125
Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val Gly Leu Pro
130 135 140
Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu Thr Phe His
145 150 155 160
Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile
165 170 175
Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro

785		790		795		800
Ile Glu Phe Ala Leu Cys Arg Thr Gln Asn Lys Glu Lys Leu Gln Trp						
	805			810		815
Leu Leu Asp Glu Ser Phe Lys Gly Asp Lys Ile Lys Thr Gln Glu Phe						
	820		825			830
Pro Gln Ile Leu Thr Leu Ile Gly Arg Asn Pro Val Gly Tyr Pro Leu						
	835		840			845
Ala Trp Gln Phe Leu Arg Lys Asn Trp Asn Lys Leu Val Gln Lys Phe						
	850		855			860
Glu Leu Gly Ser Ser Ser Ile Ala His Met Val Met Gly Thr Thr Asn						
865		870		875		880
Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly Phe Phe Ser						
	885		890			895
Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln Gln Thr Ile						
	900		905			910
Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn Phe Asp Lys						
	915		920			925
Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met						
	930		935			940

<210> 581

<211> 612

<212> PRT

<213> Homo sapiens

<400> 581

Met Ala Ala Ala Gly Arg Leu Pro Ser Ser Trp Ala Leu Phe Ser Pro															
1				5				10							15
Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro Ala Arg															
			20					25						30	
Ala Leu His Asn Val Thr Ala Glu Leu Phe Gly Ala Glu Ala Trp Gly															
			35				40					45			
Thr Leu Ala Ala Phe Gly Asp Leu Asn Ser Asp Lys Gln Thr Asp Leu															
			50			55				60					
Phe Val Leu Arg Glu Arg Asn Asp Leu Ile Val Phe Leu Ala Asp Gln															
			65			70				75					80
Asn Ala Pro Tyr Phe Lys Pro Lys Val Lys Val Ser Phe Lys Asn His															
			85					90							95
Ser Ala Leu Ile Thr Ser Val Val Pro Gly Asp Tyr Asp Gly Asp Ser															
			100				105							110	

Gln Met Asp Val Leu Leu Thr Tyr Leu Pro Lys Asn Tyr Ala Lys Ser
 115 120 125
 Glu Leu Gly Ala Val Ile Phe Trp Gly Gln Asn Gln Thr Leu Asp Pro
 130 135 140
 Asn Asn Met Thr Ile Leu Asn Arg Thr Phe Gln Asp Glu Pro Leu Ile
 145 150 155 160
 Met Asp Phe Asn Gly Asp Leu Ile Pro Asp Ile Phe Gly Ile Thr Asn
 165 170 175
 Glu Ser Asn Gln Pro Gln Ile Leu Leu Gly Gly Asn Leu Ser Trp His
 180 185 190
 Pro Ala Leu Thr Thr Thr Ser Lys Met Arg Ile Pro His Ser His Ala
 195 200 205
 Phe Ile Asp Leu Thr Glu Asp Phe Thr Ala Asp Leu Phe Leu Thr Thr
 210 215 220
 Leu Asn Ala Thr Thr Ser Thr Phe Gln Phe Glu Ile Trp Glu Asn Leu
 225 230 235 240
 Asp Gly Asn Phe Ser Val Ser Thr Ile Leu Gu Lys Pro Gln Asn Met
 245 250 255
 Met Val Val Gly Gln Ser Ala Phe Ala Asp Phe Asp Gly Asp Gly His
 260 265 270
 Met Asp His Leu Leu Pro Gly Cys Glu Asp Lys Asn Cys Gln Lys Ser
 275 280 285
 Thr Ile Tyr Leu Val Arg Ser Gly Met Lys Gln Trp Val Pro Val Leu
 290 295 300
 Gln Asp Phe Ser Asn Lys Gly Thr Leu Trp Gly Phe Val Pro Phe Val
 305 310 315 320
 Asp Glu Gln Gln Pro Thr Glu Ile Pro Ile Pro Ile Thr Leu His Ile
 325 330 335
 Gly Asp Tyr Asn Met Asp Gly Tyr Pro Asp Ala Leu Val Ile Leu Tyr
 340 345 350
 Asn Thr Ser Gly Ser Asn Gln Gln Ala Phe Leu Leu Glu Asn Val Pro
 355 360 365
 Cys Asn Asn Ala Ser Cys Glu Glu Ala Arg Arg Met Phe Lys Val Tyr
 370 375 380
 Trp Glu Leu Thr Asp Leu Asn Gln Ile Lys Asp Ala Met Val Ala Thr
 385 390 395 400
 Phe Phe Asp Ile Tyr Glu Asp Gly Ile Leu Asp Ile Val Val Leu Ser
 405 410 415

Lys Gly Tyr Thr Lys Asn Asp Phe Ala Ile His Thr Leu Lys Asn Asn
 420 425 430
 Phe Glu Ala Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu
 435 440 445
 Cys Ser Asn Asp Cys Pro Arg Lys Ile Thr Pro Phe Gly Val Asn Gln
 450 455 460
 Pro Gly Pro Tyr Ile Met Tyr Thr Thr Val Asp Ala Asn Gly Tyr Leu
 465 470 475 480
 Lys Asn Gly Ser Ala Gly Gln Leu Ser Gln Ser Ala His Leu Ala Leu
 485 490 495
 Gln Leu Pro Tyr Asn Val Leu Gly Leu Gly Arg Ser Ala Asn Phe Leu
 500 505 510
 Asp His Leu Tyr Val Gly Ile Pro Arg Pro Ser Gly Glu Lys Ser Ile
 515 520 525
 Arg Lys Gln Glu Trp Thr Ala Ile Ile Pro Asn Ser Gln Leu Ile Val
 530 535 540
 Ile Pro Tyr Pro His Asn Val Pro Arg Ser Trp Ser Ala Lys Leu Tyr
 545 550 555 560
 Leu Thr Pro Ser Asn Ile Val Leu Leu Thr Ala Ile Ala Leu Ile Gly
 565 570 575
 Val Cys Val Phe Ile Leu Ala Ile Ile Gly Ile Leu His Trp Gln Glu
 580 585 590
 Lys Lys Ala Asp Asp Arg Glu Lys Arg Gln Glu Ala His Arg Phe His
 595 600 605
 Phe Asp Ala Met
 610

<210> 582

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 582

Met Ser Glu Ile Arg Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly
1 5 10 15
Thr Cys Cys Leu Trp Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe
20 25 30
Cys Lys Gln Ala Thr Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala
35 40 45
Val Ser Thr Val Val Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp
50 55 60
Phe Asp Val Thr Ser Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile
65 70 75 80
Ser Val Ser Leu Ala Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr
85 90 95
Arg Glu Leu Leu Ser Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val
100 105 110
Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile
115 120 125
Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser
130 135 140
Val Gly Glu Gly Thr Val Ala Ala Gly Tyr Gln Asp Phe Ile Ile Cys
145 150 155 160
Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg Xaa Ala Phe Xaa Tyr
165 170 175
Lys Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys Ala Pro
180 185 190
Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro His Asp
195 200 205
Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln Gln Tyr
210 215 220
Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly Gly Ala
225 230 235 240
His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp Asn Glu
245 250 255
Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe
260 265

<210> 583

<211> 53

<212> PRT

<213> Homo sapiens

<400> 583

Met Leu Val Leu Met Thr Thr Cys Ile Leu Ala Ala Val Cys Val His
1 5 10 15
Thr Ala Gln Cys Ala Pro Asp Ser Arg Met Asp Asn Asp Cys Pro Ser
20 25 30
His Gln Ala Gln Ile His Phe Arg Ala Ser Glu Val Arg Arg Gly Trp
35 40 45
Thr Phe Asn His Asp
50

<210> 584

<211> 196

<212> PRT

<213> Homo sapiens

<400> 584

Met Ala Phe Arg Tyr Leu Ser Trp Ile Leu Phe Pro Leu Leu Gly Cys
1 5 10 15
Tyr Ala Val Tyr Ser Leu Leu Tyr Leu GluHis Lys Gly Trp Tyr Ser
20 25 30
Trp Val Leu Ser Met Leu Tyr Gly Phe Leu Leu Thr Phe Gly Phe Ile
35 40 45
Thr Met Thr Pro Gln Leu Phe Ile Asn Tyr Lys Leu LysSer Val Ala
50 55 60
His Leu Pro Trp Arg Met Leu Thr Tyr Lys Ala Leu Asn Thr Phe Ile
65 70 75 80
Asp Asp Leu Phe Ala Phe Val Ile Lys Met Pro Val Met Tyr ArgIle
85 90 95
Gly Cys Leu Arg Asp Asp Val Val Phe Phe Ile Tyr Leu Tyr Gln Arg
100 105 110
Trp Ile Tyr Arg Val Asp Pro Thr Arg Val Asn Glu Phe Gly Met Ser
115 120 125
Gly Glu Asp Pro Thr Ala Ala Ala Pro Val Ala Glu Val Pro Thr Ala
130 135 140
Ala Gly Ala Leu Thr Pro Thr Pro Ala Pro Thr Thr Thr Thr Ala Thr
145 150 155 160
Arg Glu Glu Ala Ser Thr Ser Leu Pro Thr Lys Pro Thr Gln Gly Ala
165 170 175
Ser Ser Ala Ser Glu Pro Gln Glu Ala Pro Pro Lys Pro Ala Glu Asp

180 185 190

Lys Lys Lys Asp
195

<210> 585
<211> 52
<212> PRT
<213> Homo sapiens

<400> 585
Met His Cys His Ser Ala Leu Gly Pro Met Ser Thr Pro Val Leu Pro
1 5 10 15
Phe Ser Gly Ile Gly Leu Ala Phe Leu Cys Leu Cys Leu Ala Ala Ser
20 25 30
Met Val Asp Leu Lys Cys Leu Gly Met Asn Ser Thr Leu Leu Gln Pro
35 40 45
Ser Ile Lys Glu
50

<210> 586
<211> 72
<212> PRT
<213> Homo sapiens

<400> 586
Met Ala Arg Gly Cys Val Cys Ser Leu Cys Ala Ser Val Cys Ile Phe
1 5 10 15
Leu Ser Ser Leu Phe Pro Leu Leu Pro Ser Val His Ser Val Asn Ile
20 25 30
Ile Ser Cys Leu Leu Leu Ser Lys Cys Phe Glu Gly Leu Glu Leu Met
35 40 45
Cys Glu His Leu Tyr Gln Leu Ser Gln Leu His Val Leu His His Ile
50 55 60
Phe Ser Tyr Leu Leu Cys Thr Pro
65 70

<210> 587
<211> 87
<212> PRT
<213> Homo sapiens

<400> 587
Met Gly Leu His Leu Arg Pro Tyr Arg Val Gly Hu Leu Pro Asp Gly

1 5 10 15
 Leu Leu Phe Leu Leu Leu Leu Leu Met Leu Leu Ala Asp Pro Ala Leu
 20 25 30
 Pro Ala Gly Arg His Pro Pro Val Val Leu Val Pro Gly Asp Leu Gly
 35 40 45
 Asn Gln Leu Glu Ala Lys Leu Asp Lys Pro Thr Val Val His Tyr Leu
 50 55 60
 Cys Ser Lys Lys Thr Glu Ser Tyr Phe Thr Ile Trp Leu Asn Leu Glu
 65 70 75 80
 Leu Leu Leu Pro Val His His
 85

<210> 588
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 588
 Met Gly Pro Ser Gln Arg Glu Val Thr Val Gln Trp His Arg Ala Leu
 1 5 10 15
 Phe Leu Leu Pro Leu Leu Leu Leu Ser Thr Arg Thr Glu Thr Lys Asn
 20 25 30
 Phe Gly Phe Lys Trp Leu Lys Asp
 35 40

<210> 589
 <211> 525
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 589
 Met Leu Ala Phe Pro Leu Leu Leu Thr Gly Leu Ile Ser Phe Arg Glu
 1 5 10 15
 Lys Arg Leu Gln Asp Val Gly Thr Pro Ala Ala Arg Ala Arg Ala Phe
 20 25 30
 Phe Thr Ala Pro Val Val Val Phe His Leu Asn Ile Leu Ser Tyr Phe
 35 40 45
 Ala Phe Leu Cys Leu Phe Ala Tyr Val Leu Met Val Asp Phe Gln Pro

50	55	60
Val 65	Pro Ser Trp Cys 70	Glu Cys Ala Ile Tyr Leu 75
Val 85	Cys Glu Glu Met 85	Arg Gln Leu Phe Tyr 90
Leu 100	Met Lys Lys Ala Ala Leu Tyr 105	Phe Ser Asp Phe Trp Asn Lys Leu 110
Asp 115	Val Gly Ala Ile Leu Leu Phe Val Ala Gly Leu Thr Cys Arg Leu 125	
Ile 130	Pro Ala Thr Leu Tyr Pro Gly Arg Val Ile Leu Ser Leu Asp Phe 140	
Ile 145	Leu Phe Cys Leu Arg Leu Met His Ile Phe Thr Ile Ser Lys Thr 160	
Leu 165	Gly Pro Lys Ile Ile Ile Val Lys Arg Met Met Lys Asp Val Phe 175	
Phe 180	Phe Leu Phe Leu Leu Ala Val Trp Val Val Ser Phe Gly Val Ala 190	
Lys 195	Gln Ala Ile Leu Ile His Asn Glu Arg Arg Val Asp Trp Leu Phe 205	
Arg 210	Xaa Ala Val Tyr His Ser Tyr Leu Thr Ile Phe Gly Gln Ile Pro 220	
Gly 225	Tyr Ile Asp Gly Val Asn Phe Asn Pro Glu His Cys Ser Pro Asn 240	
Gly 245	Thr Asp Pro Tyr Lys Pro Lys Cys Pro Glu Ser Asp Ala Thr Gln 255	
Gln 260	Arg Pro Ala Phe Pro Glu Trp Leu Thr Val Leu Leu Leu Cys Leu 270	
Tyr 275	Leu Leu Phe Thr Asn Ile Leu Leu Leu Asn Leu Leu Ile Ala Met 285	
Phe 290	Asn Tyr Thr Phe Gln Gln Val Gln Glu His Thr Asp Gln Ile Trp 300	
Lys 305	Phe Gln Arg His Asp Leu Ile Glu Glu Tyr His Gly Arg Pro Ala 320	
Ala 325	Pro Pro Pro Phe Ile Leu Leu Ser His Leu Gln Leu Phe Ile Lys 335	
Arg 340	Val Val Leu Lys Thr Pro Ala Lys Arg His Lys Gln Leu Lys Asn 350	
Lys	Leu Glu Lys Asn Glu Glu Ala Ala Leu Leu Ser Trp Glu Ile Tyr	

355	360	365
Leu Lys Glu Asn Tyr Leu Gln Asn Arg Gln Phe Gln Gln Lys GlnArg		
370	375	380
Pro Glu Gln Lys Ile Glu Asp Ile Ser Asn Lys Val Asp Ala Met Val		
385	390	395
Asp Leu Leu Asp Leu Asp Pro Leu Lys Arg Ser Gly Ser Met Glu Gln		
405	410	415
Arg Leu Ala Ser Leu Glu Glu Gln Val Ala Gln Thr Ala Arg Ala Leu		
420	425	430
His Trp Ile Val Arg Thr Leu Arg Ala Ser Gly Phe Ser Ser Glu Ala		
435	440	445
Asp Val Pro Thr Leu Ala Ser Gln Lys Ala Ala Glu Glu Pro Asp Ala		
450	455	460
Glu Pro Gly Gly Arg Lys Lys Thr Glu Glu Pro Gly Asp Ser Tyr His		
465	470	475
Val Asn Ala Arg His Leu Leu Tyr Pro Asn Cys Pro Val Thr Arg Phe		
485	490	495
Pro Val Pro Asn Glu Lys Val Pro Trp Glu Thr Glu Phe Leu Ile Tyr		
500	505	510
Asp Pro Pro Phe Tyr Thr Ala Glu Arg Lys Asp Ala Ala		
515	520	525

<210> 590
 <211> 937
 <212> PRT
 <213> Homo sapiens

<400> 590
Met Gln Asn Ser Gly Lys Thr Lys Phe LysArg Thr Ser Ile Asp Arg
1 5 10 15
Leu Met Asn Thr Leu Val Leu Trp Ile Phe Gly Phe Leu Ile Cys Leu
20 25 30
Gly Ile Ile Leu Ala Ile Gly Asn Ser Ile TrpGlu Ser Gln Thr Gly
35 40 45
Asp Gln Phe Arg Thr Phe Leu Phe Trp Asn Glu Gly Glu Lys Ser Ser
50 55 60
Val Phe Ser Gly Phe Leu Thr Phe Trp Ser Tyr Ile Ile Ile Leu Asn
65 70 75 80
Thr Val Val Pro Ile Ser Leu Tyr Val Ser Val Glu Val Ile Arg Leu
85 90 95

Gly His Ser Tyr Phe Ile Asn Trp Asp Arg Lys Met Tyr Tyr SerArg
 100 105 110
 Lys Ala Ile Pro Ala Val Ala Arg Thr Thr Thr Leu Asn Glu Glu Leu
 115 120 125
 Gly Gln Ile Glu Tyr Ile Phe Ser Asp Lys Thr Gly Thr Leu Thr Gln
 130 135 140
 Asn Ile Met Thr Phe Lys Arg Cys Ser Ile Asn Gly Arg Ile Tyr Gly
 145 150 155 160
 Glu Val His Asp Asp Leu Asp Gln Lys Thr Glu Ile Thr Gln Glu Lys
 165 170 175
 Glu Pro Val Asp Phe Ser Val Lys Ser Gln Ala Asp Arg Glu Phe Gln
 180 185 190
 Phe Phe Asp His Asn Leu Met Glu Ser Ile Lys Met Gly Asp Pro Lys
 195 200 205
 Val His Glu Phe Leu Arg Leu Leu Ala Leu Cys His Thr Val Met Ser
 210 215 220
 Glu Glu Asn Ser Ala Gly Glu Leu Ile Tyr Gln Val Gln Ser Pro Asp
 225 230 235 240
 Glu Gly Ala Leu Val Thr Ala Ala Arg Asn Phe Gly Phe Ile Phe Lys
 245 250 255
 Ser Arg Thr Pro Glu Thr Ile Thr Ile Glu Glu Leu Gly Thr Leu Val
 260 265 270
 Thr Tyr Gln Leu Leu Ala Phe Leu Asp Phe Asn Asn Thr Arg Lys Arg
 275 280 285
 Met Ser Val Ile Val Arg Asn Pro Glu Gly Gln Ile Lys Leu Tyr Ser
 290 295 300
 Lys Gly Ala Asp Thr Ile Leu Phe Glu Lys Leu His Pro Ser Asn Glu
 305 310 315 320
 Val Leu Leu Ser Leu Thr Ser Asp His Leu Ser Glu Phe Ala Gly Glu
 325 330 335
 Gly Leu Arg Thr Leu Ala Ile Ala Tyr Arg Asp Leu Asp Asp Lys Tyr
 340 345 350
 Phe Lys Glu Trp His Lys Met Leu Glu Asp Ala Asn Val Ala Thr Glu
 355 360 365
 Glu Arg Asp Glu Arg Ile Ala Gly Leu Tyr Glu Glu Ile Glu Arg Asp
 370 375 380
 Leu Met Leu Leu Gly Ala Thr Ala Val Glu Asp Lys Leu Gln Glu Gly
 385 390 395 400

Val Ile Glu Thr Val Thr Ser Leu Ser Leu Ala Asn Ile Lys Ile Trp
405 410 415
Val Leu Thr Gly Asp Lys Gln Glu Thr Ala Ile Asn Ile Gly Tyr Ala
420 425 430
Cys Asn Met Leu Thr Asp Asp Met Asn Asp Val Phe Val Ile Ala Gly
435 440 445
Asn Asn Ala Val Glu Val Arg Glu Glu Leu Arg Lys Ala Lys Gln Asn
450 455 460
Leu Phe Gly Gln Asn Arg Asn Phe Ser Asn Gly His Val Val Cys Glu
465 470 475 480
Lys Lys Gln Gln Leu Glu Leu Asp Ser Ile Val Glu Glu Thr Ile Thr
485 490 495
Gly Asp Tyr Ala Leu Ile Ile Asn Gly His Ser Leu Ala His Ala Leu
500 505 510
Glu Ser Asp Val Lys Asn Asp Leu Leu Glu Leu Ala Cys Met Cys Lys
515 520 525
Thr Val Ile Cys Cys Arg Val Thr Pro Leu Gln Lys Ala Gln Val Val
530 535 540
Glu Leu Val Lys Lys Tyr Arg Asn Ala Val Thr Leu Ala Ile Gly Asp
545 550 555 560
Gly Ala Asn Asp Val Ser Met Ile Lys Ser Ala His Ile Gly Val Gly
565 570 575
Ile Ser Gly Gln Glu Gly Leu Gln Ala Val Leu Ala Ser Asp Tyr Ser
580 585 590
Phe Ala Gln Phe Arg Tyr Leu Gln Arg Leu Leu Leu Val His Gly Arg
595 600 605
Trp Ser Tyr Phe Arg Met Cys Lys Phe Leu Cys Tyr Phe Phe Tyr Lys
610 615 620
Asn Phe Ala Phe Thr Leu Val His Phe Trp Phe Gly Phe Phe Cys Gly
625 630 635 640
Phe Ser Ala Gln Thr Val Tyr Asp Gln Trp Phe Ile Thr Leu Phe Asn
645 650 655
Ile Val Tyr Thr Ser Leu Pro Val Leu Ala Met Gly Ile Phe Asp Gln
660 665 670
Asp Val Ser Asp Gln Asn Ser Val Asp Cys Pro Gln Leu Tyr Lys Pro
675 680 685
Gly Gln Leu Asn Leu Leu Phe Asn Lys Arg Lys Phe Phe Ile Cys Val
690 695 700

Met His Gly Ile Tyr Thr Ser Leu Val Leu Phe Phe Ile Pro Tyr Gly
 705 710 715 720
 Ala Phe Tyr Asn Val Ala Gly Glu Asp Gly Gln His Ile Ala Asp Tyr
 725 730 735
 Gln Ser Phe Ala Val Thr Met Ala Thr Ser Leu Val Ile Val Val Ser
 740 745 750
 Val Gln Ile Ala Leu Asp Thr Ser Tyr Trp Thr Phe Ile Asn His Val
 755 760 765
 Phe Ile Trp Gly Ser Ile Ala Ile Tyr Phe Ser Ile Leu Phe Thr Met
 770 775 780
 His Ser Asn Gly Ile Phe Gly Ile Phe Pro Asn Gln Phe Pro Phe Val
 785 790 795 800
 Gly Asn Ala Arg His Ser Leu Thr Gln Lys Cys Ile Trp Leu Val Ile
 805 810 815
 Leu Leu Thr Thr Val Ala Ser Val Met Pro Val Val Ala Phe Arg Phe
 820 825 830
 Leu Lys Val Asp Leu Tyr Pro Thr Leu Ser Asp Gln Ile Arg Arg Trp
 835 840 845
 Gln Lys Ala Gln Lys Lys Ala Arg Pro Pro Ser Ser Arg Arg Pro Arg
 850 855 860
 Thr Arg Arg Ser Ser Ser Arg Arg Ser Gly Tyr Ala Phe Ala His Gln
 865 870 875 880
 Glu Gly Tyr Gly Glu Leu Ile Thr Ser Gly Lys Asn Met Arg Ala Lys
 885 890 895
 Asn Pro Pro Pro Thr Ser Gly Leu Glu Lys Thr His Tyr Asn Ser Thr
 900 905 910
 Ser Trp Ile Glu Asn Leu Cys Lys Lys Thr Thr Asp Thr Val Ser Ser
 915 920 925
 Phe Ser Gln Asp Lys Thr Val Lys Leu
 930 935

<210> 591
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 591
 Met Leu Leu Ser Phe Tyr Cys Leu Pro Met Val Ser Ile His Ile Phe
 1 5 10 15

Phe Pro Cys Ala His Cys Val Tyr Leu Leu His Ile Ser Cys Ser Leu
20 25 30
Gly Glu Glu Ser Phe Asn Arg Asp Thr Cys Lys Lys Asp Phe Cys Phe
35 40 45
Ser Ile Gln Asn Val Asn Ser Thr Phe Leu Leu Ser Leu Ala Val Phe
50 55 60
Arg Phe Ser Glu Arg Phe Ser Asp Ser Asn Phe Leu Phe Thr Thr Pro
65 70 75 80
Pro Ile Cys Ser Glu Lys Asn Gly Leu Leu Tyr His Trp Ile
85 90

<210> 592
<211> 122
<212> PRT
<213> Homo sapiens

<400> 592
Met Ile Gly Gly Ile Thr Cys Ile Leu Ser Leu Ile Cys Ala Leu Ala
1 5 10 15
Leu Ala Tyr Leu Asp Gln Arg Ala Glu Arg Ile Leu His Lys Glu Gln
20 25 30
Gly Lys Thr Gly Glu Val Ile Lys Leu Thr Asp Val Lys Asp Phe Ser
35 40 45
Leu Pro Leu Trp Leu Ile Phe Ile Ile Cys Val Cys Tyr Tyr Val Ala
50 55 60
Val Phe Pro Phe Ile Gly Leu Gly Lys Val Phe Phe Thr Glu Lys Phe
65 70 75 80
Gly Phe Ser Ser Gln Ala Ala Ser Ala Ile Asn Ser Val Val Tyr Val
85 90 95
Ile Ser Ala Pro Met Ser Pro Val Phe Gly Leu Leu Val Asp Lys Thr
100 105 110
Gly Lys Asn Ile Ile Trp Val Leu Cys Ala
115 120

<210> 593
<211> 567
<212> PRT
<213> Homo sapiens

<400> 593
Met Ala Pro Leu Ala Leu His Leu Leu Val Leu Val Pro Ile Leu Leu
1 5 10 15

Ser Leu Val Ala Ser Gln Asp Trp Lys Ala Glu Arg Ser Gln Asp Pro
 20 25 30
 Phe Glu Lys Cys Met Gln Asp Pro Asp Tyr Glu Gln Leu Leu Lys Val
 35 40 45
 Val Thr Trp Gly Leu Asn Arg Thr Leu Lys Pro Gln Arg Val Ile Val
 50 55 60
 Val Gly Ala Gly Val Ala Gly Leu Val Ala Ala Lys Val Leu Ser Asp
 65 70 75 80
 Ala Gly His Lys Val Thr Ile Leu Glu Ala Asp Asn Arg Ile Gly Gly
 85 90 95
 Arg Ile Phe Thr Tyr Arg Asp Gln Asn Thr Gly Trp Ile Gly Glu Leu
 100 105 110
 Gly Ala Met Arg Met Pro Ser Ser His Arg Ile Leu His Lys Leu Cys
 115 120 125
 Gln Gly Leu Gly Leu Asn Leu Thr Lys Phe Thr Gln Tyr Asp Lys Asn
 130 135 140
 Thr Trp Thr Glu Val His Glu Val Lys Leu Arg Asn Tyr Val Val Glu
 145 150 155 160
 Lys Val Pro Glu Lys Leu Gly Tyr Ala Leu Arg Pro Gln Glu Lys Gly
 165 170 175
 His Ser Pro Glu Asp Ile Tyr Gln Met Ala Leu Asn Gln Ala Leu Lys
 180 185 190
 Asp Leu Lys Ala Leu Gly Cys Arg Lys Ala Met Lys Lys Phe Glu Arg
 195 200 205
 His Thr Leu Leu Glu Tyr Leu Leu Gly Glu Gly Asn Leu Ser Arg Pro
 210 215 220
 Ala Val Gln Leu Leu Gly Asp Val Met Ser Glu Asp Gly Phe Phe Tyr
 225 230 235 240
 Leu Ser Phe Ala Glu Ala Leu Arg Ala His Ser Cys Leu Ser Asp Arg
 245 250 255
 Leu Gln Tyr Ser Arg Ile Val Gly Gly Trp Asp Leu Leu Pro Arg Ala
 260 265 270
 Leu Leu Ser Ser Leu Ser Gly Leu Val Leu Leu Asn Ala Pro Val Val
 275 280 285
 Ala Met Thr Gln Gly Pro His Asp Val His Val Gln Ile Glu Thr Ser
 290 295 300
 Pro Pro Ala Arg Asn Leu Lys Val Leu Lys Ala Asp Val Val Leu Leu
 305 310 315 320

Thr Ala Ser Gly Pro Ala Val Lys Arg Ile Thr Phe Ser Pro Pro Leu
 325 330 335
 Pro Arg His Met Gln Glu Ala Leu Arg Arg Leu His Tyr Val Pro Ala
 340 345 350
 Thr Lys Val Phe Leu Ser Phe Arg Arg Pro Phe Trp Arg Glu Glu His
 355 360 365
 Ile Glu Gly Gly His Ser Asn Thr Asp Arg Pro Ser Arg Met Ile Phe
 370 375 380
 Tyr Pro Pro Pro Arg Glu Gly Ala Leu Leu Leu Ala Ser Tyr Thr Trp
 385 390 395 400
 Ser Asp Ala Ala Ala Ala Phe Ala Gly Leu Ser Arg Glu Glu Ala Leu
 405 410 415
 Arg Leu Ala Leu Asp Asp Val Ala Ala Leu His Gly Pro Val Val Arg
 420 425 430
 Gln Leu Trp Asp Gly Thr Gly Val Val Lys Arg Trp Ala Glu Asp Gln
 435 440 445
 His Ser Gln Gly Gly Phe Val Val Gln Pro Pro Ala Leu Trp Gln Thr
 450 455 460
 Glu Lys Asp Asp Trp Thr Val Pro Tyr Gly Arg Ile Tyr Phe Ala Gly
 465 470 475 480
 Glu His Thr Ala Tyr Pro His Gly Trp Val Glu Thr Ala Val Lys Ser
 485 490 495
 Ala Leu Arg Ala Ala Ile Lys Ile Asn Ser Arg Lys Gly Pro Ala Ser
 500 505 510
 Asp Thr Ala Ser Pro Glu Gly His Ala Ser Asp Met Glu Gly Gln Gly
 515 520 525
 His Val His Gly Val Ala Ser Ser Pro Ser His Asp Leu Ala Lys Glu
 530 535 540
 Glu Gly Ser His Pro Pro Val Gln Gly Gln Leu Ser Leu Gln Asn Thr
 545 550 555 560
 Thr His Thr Arg Thr Ser His
 565

<210> 594
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 594

Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val
 1 5 10 15
 Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly
 20 25 30
 Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu
 35 40 45

<210> 595
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 595
 Met Ser Trp Val Ile Val Val Ile Ile Trp Gly Tyr Leu Leu Glu Gly
 1 5 10 15
 His Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Ser Pro Trp Lys Leu
 20 25 30
 His Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg
 35 40 45
 Ile Leu Glu Thr Leu Met Ser Gly Ser Thr His Cys Ser Phe Ser Gly
 50 55 60
 Thr Phe
 65

<210> 596
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 596
 Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu
 1 5 10 15
 Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Phe Tyr
 20 25 30
 Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg
 35 40 45
 Ser Ser His Ser Pro Arg Thr Trp Arg Thr Pro Ser Ser Gln Thr Lys
 50 55 60
 Ala Ala Leu Pro Ala Gly Gly Ala Arg Asn Ser Pro Leu Gln Leu Cys
 65 70 75 80
 Thr Arg Ser Arg Phe Cys Gly Thr Pro Met
 85 90

<210> 597
 <211> 710
 <212> PRT
 <213> Homo sapiens

<400> 597
 Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro
 1 5 10 15
 Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His
 20 25 30
 Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys
 35 40 45
 Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr
 50 55 60
 His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys
 65 70 75 80
 Asp Leu Cys Leu Arg Val Ala Val His Leu Ala Val His Gly His Trp
 85 90 95
 Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Leu Gly
 100 105 110
 Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser
 115 120 125
 Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val
 130 135 140
 Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr
 145 150 155 160
 Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr
 165 170 175
 Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu Pro
 180 185 190
 Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala
 195 200 205
 Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Phe Gly
 210 215 220
 Leu Ser Leu Tyr Trp Asn Gln Val Gln Gly Pro Pro Lys Pro Arg Trp
 225 230 235 240
 His Lys Asn Leu Thr Gly Pro Gln Ile Ile Thr Leu Asn His Thr Asp
 245 250 255

Leu Val Pro Cys Leu Cys Ile Gln Val Trp Pro Leu Glu Pro Asp Ser
 260 265 270
 Val Arg Thr Asn Ile Cys Pro Phe Arg Glu Asp Pro Arg Ala His Gln
 275 280 285
 Asn Leu Trp Gln Ala Ala Arg Leu Arg Leu Leu Thr Leu Gln Ser Trp
 290 295 300
 Leu Leu Asp Ala Pro Cys Ser Leu Pro Ala Glu Ala Ala Leu Cys Trp
 305 310 315 320
 Arg Ala Pro Gly Gly Asp Pro Cys Gln Pro Leu Val Pro Pro Leu Ser
 325 330 335
 Trp Glu Asn Val Thr Val Asp Lys Val Leu Glu Phe Pro Leu Leu Lys
 340 345 350
 Gly His Pro Asn Leu Cys Val Gln Val Asn Ser Ser Glu Lys Leu Gln
 355 360 365
 Leu Gln Glu Cys Leu Trp Ala Asp Ser Leu Gly Pro Leu Lys Asp Asp
 370 375 380
 Val Leu Leu Leu Glu Thr Arg Gly Pro Gln Asp Asn Arg Ser Leu Cys
 385 390 395 400
 Ala Leu Glu Pro Ser Gly Cys Thr Ser Leu Pro Ser Lys Ala Ser Thr
 405 410 415
 Arg Ala Ala Arg Leu Gly Glu Tyr Leu Leu Gln Asp Leu Gln Ser Gly
 420 425 430
 Gln Cys Leu Gln Leu Trp Asp Asp Asp Leu Gly Ala Leu Trp Ala Cys
 435 440 445
 Pro Met Asp Lys Tyr Ile His Lys Arg Trp Ala Leu Val Trp Leu Ala
 450 455 460
 Cys Leu Leu Phe Ala Ala Ala Leu Ser Leu Ile Leu Leu Leu Lys Lys
 465 470 475 480
 Asp His Ala Lys Gly Trp Leu Arg Leu Leu Lys Gln Asp Val Arg Ser
 485 490 495
 Gly Ala Ala Ala Arg Gly Arg Ala Ala Leu Leu Leu Tyr Ser Ala Asp
 500 505 510
 Asp Ser Gly Phe Glu Arg Leu Val Gly Ala Leu Ala Ser Ala Leu Cys
 515 520 525
 Gln Leu Pro Leu Arg Val Ala Val Asp Leu Trp Ser Arg Arg Glu Leu
 530 535 540
 Ser Ala Gln Gly Pro Val Ala Trp Phe His Ala Gln Arg Arg Gln Thr
 545 550 555 560

Leu Gln Glu Gly Gly Val Val Val Leu Leu Phe Ser Pro Gly Ala Val
 565 570 575
 Ala Leu Cys Ser Glu Trp Leu Gln Asp Gly Val Ser Gly Pro Gly Ala
 580 585 590
 His Gly Pro His Asp Ala Phe Arg Ala Ser Leu Ser Cys Val Leu Pro
 595 600 605
 Asp Phe Leu Gln Gly Arg Ala Pro Gly Ser Tyr Val Gly Ala Cys Phe
 610 615 620
 Asp Arg Leu Leu His Pro Asp Ala Val Pro Ala Leu Phe Arg Thr Val
 625 630 635 640
 Pro Val Phe Thr Leu Pro Ser Gln Leu Pro Asp Phe Leu Gly Ala Leu
 645 650 655
 Gln Gln Pro Arg Ala Pro Arg Ser Gly Arg Leu Gln Glu Arg Ala Glu
 660 665 670
 Gln Val Ser Arg Ala Leu Gln Pro Ala Leu Asp Ser Tyr Phe His Pro
 675 680 685
 Pro Gly Thr Pro Ala Pro Gly Arg Gly Val Gly Pro Gly Ala Gly Pro
 690 695 700
 Gly Ala Gly Asp Gly Thr
 705 710

<210> 598
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 598
 Met Phe Ala Pro Cys Phe Val Asn Leu Ala Leu Phe Tyr Leu Tyr Ile
 1 5 10 15
 Asn Ser Cys Asn Leu Leu Asn Leu Thr Ser Ile Asp Pro Phe Gln Gln
 20 25 30
 Lys Gly Lys Phe Lys Met Gln Thr Leu Leu Phe Ala Lys Glu Asp Ser
 35 40 45

<210> 599
 <211> 200
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (144)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (149)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (160)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (173)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (177)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (189)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 599
 Met Phe Phe Leu Leu Cys Leu Val Ala Leu Glu Ile Lys Gly Phe Thr
 1 5 10 15
 Phe Ser Ala Arg Gly Ala Arg Asp Arg Phe Leu Asn Lys Ser Gly Pro
 20 25 30
 Gln Pro Gly Lys Lys Met Lys Thr Thr His Cys Lys Gln Pro Leu Phe
 35 40 45
 Ser Lys Pro Gly Gln Val Arg Gly Ala Leu Arg Lys Ala Arg Gly Arg
 50 55 60
 Gln Glu Glu Arg Glu Ala Val Gly Met Trp Gly Gly Arg Gly His Ser
 65 70 75 80
 Tyr Pro Glu Tyr Ile Lys Thr Ser Glu Val Thr Glu Val Arg Asp Ser
 85 90 95
 Pro Lys His Pro Gln Val Gln Pro Phe Leu Thr Thr Arg Val Thr Cys
 100 105 110
 Arg Val Pro Gly His Leu Gln Val Leu Glu Ala Leu Cys Gly Ala Trp
 115 120 125
 Gly Ser Met Phe Lys His Ala Leu Val Val Val Gln Val Pro Arg Xaa
 130 135 140

Arg Gly Arg Ala Xaa Leu Gly Ser Glu Trp Gln Val Gly Gln Leu Xaa
 145 150 155 160
 Leu Ile Leu Leu His Gly Thr Gln His Trp Ala Ala Xaa Leu Val Pro
 165 170 175
 Xaa Leu Pro Gln Glu Ser Ile Leu Pro Ala Gln Ser Xaa Arg Val Thr
 180 185 190
 Asn Thr Pro Gly Thr Glu Glu Thr
 195 200

<210> 600
 <211> 467
 <212> PRT
 <213> Homo sapiens

<400> 600
 Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val
 1 5 10 15
 Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser
 20 25 30
 Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe
 35 40 45
 Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr
 50 55 60
 Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr
 65 70 75 80
 Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His
 85 90 95
 Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp
 100 105 110
 Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly
 115 120 125
 Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr
 130 135 140
 Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser
 145 150 155 160
 Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln
 165 170 175
 Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu
 180 185 190

His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro
 195 200 205
 Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala
 210 215 220
 Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro
 225 230 235 240
 Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr
 245 250 255
 Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu
 260 265 270
 Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp
 275 280 285
 Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu
 290 295 300
 Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys
 305 310 315 320
 Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser
 325 330 335
 Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu
 340 345 350
 Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser
 355 360 365
 Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala
 370 375 380
 Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr
 385 390 395 400
 Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp
 405 410 415
 Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu
 420 425 430
 Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln
 435 440 445
 Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys
 450 455 460
 Ile Pro Lys
 465

<210> 601

<211> 802
 <212> PRT
 <213> Homo sapiens

<400> 601
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg
 1 5 10 15
 Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro
 20 25 30
 Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Ser Arg Asp
 35 40 45
 Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly
 50 55 60
 Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg
 65 70 75 80
 Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro
 85 90 95
 Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys
 100 105 110
 Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp
 115 120 125
 Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg
 130 135 140
 Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg
 145 150 155 160
 Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser
 165 170 175
 Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro
 180 185 190
 Phe Val Gly Gly Thr Tyr Phe Pro Pro Glu Asp Gly Leu Thr Arg Val
 195 200 205
 Gly Phe Arg Thr Val Leu Leu Arg Ile Arg Glu Gln Trp Lys Gln Asn
 210 215 220
 Lys Asn Thr Leu Leu Glu Asn Ser Gln Arg Val Thr Thr Ala Leu Leu
 225 230 235 240
 Ala Arg Ser Glu Ile Ser Val Gly Asp Arg Gln Leu Pro Pro Ser Ala
 245 250 255
 Ala Thr Val Asn Asn Arg Cys Phe Gln Gln Leu Asp Glu Gly Tyr Asp
 260 265 270
 Glu Glu Tyr Gly Gly Phe Ala Glu Ala Pro Lys Phe Pro Thr Pro Val

275	280	285
Ile Leu Ser Phe Leu Phe Ser Tyr Trp Leu Ser His Arg Leu Thr Gln 290 295 300		
Asp Gly Ser Arg Ala Gln Gln Met Ala Leu His Thr Leu Lys Met Met 305 310 315 320		
Ala Asn Gly Gly Ile Arg Asp His Val Gly Gln Gly Phe His Arg Tyr 325 330 335		
Ser Thr Asp Arg Gln Trp His Val Pro His Phe Glu Lys Met Leu Tyr 340 345 350		
Asp Gln Ala Gln Leu Ala Val Ala Tyr Ser Gln Ala Phe Gln Leu Ser 355 360 365		
Gly Asp Glu Phe Tyr Ser Asp Val Ala Lys Gly Ile Leu Gln Tyr Val 370 375 380		
Ala Arg Ser Leu Ser His Arg Ser Gly Gly Phe Tyr Ser Ala Glu Asp 385 390 395 400		
Ala Asp Ser Pro Pro Glu Arg Gly Gln Arg Pro Lys Glu Gly Ala Tyr 405 410 415		
Tyr Val Trp Thr Val Lys Glu Val Gln Gln Leu Leu Pro Glu Pro Val 420 425 430		
Leu Gly Ala Thr Glu Pro Leu Thr Ser Gly Gln Leu Leu Met Lys His 435 440 445		
Tyr Gly Leu Thr Glu Ala Gly Asn Ile Ser Pro Ser Gln Asp Pro Lys 450 455 460		
Gly Glu Leu Gln Gly Gln Asn Val Leu Thr Val Arg Tyr Ser Leu Glu 465 470 475 480		
Leu Thr Ala Ala Arg Phe Gly Leu Asp Val Glu Ala Val Arg Thr Leu 485 490 495		
Leu Asn Ser Gly Leu Glu Lys Leu Phe Gln Ala Arg Lys His Arg Pro 500 505 510		
Lys Pro His Leu Asp Ser Lys Met Leu Ala Ala Trp Asn Gly Leu Met 515 520 525		
Val Ser Gly Tyr Ala Val Thr Gly Ala Val Leu Gly Gln Asp Arg Leu 530 535 540		
Ile Asn Tyr Ala Thr Asn Gly Ala Lys Phe Leu Lys Arg His Met Phe 545 550 555 560		
Asp Val Ala Ser Gly Arg Leu Met Arg Thr Cys Tyr Thr Gly Pro Gly 565 570 575		
Gly Thr Val Glu His Ser Asn Pro Pro Cys Trp Gly Phe Leu Glu Asp		

Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro
 35 40 45
 Ala Ala Ala Ala Leu Leu Ala Pro Leu Leu His Asp Ala Leu Gly Ala
 50 55 60
 Cys Gly Phe Gln Gly Pro Glu Tyr Leu Leu Pro Cys Leu Leu Pro Leu
 65 70 75 80
 Pro Lys Pro Gly Gln Leu Gln Gly Pro Trp Gly Pro Leu Trp Ala Leu
 85 90 95
 Leu Pro

<210> 603
 <211> 365
 <212> PRT
 <213> Homo sapiens

<400> 603
 Met Phe Val Gly Leu Met Ala Phe Leu Leu Ser Phe Tyr Leu Ile Phe
 1 5 10 15
 Thr Asn Glu Gly Arg Ala Leu Lys Thr Ala Thr Ser Leu Ala Glu Gly
 20 25 30
 Leu Ser Leu Val Val Ser Pro Asp Ser Ile His Ser Val Ala Pro Glu
 35 40 45
 Asn Glu Gly Arg Leu Val His Ile Ile Gly Ala Leu Arg Thr Ser Lys
 50 55 60
 Leu Leu Ser Asp Pro Asn Tyr Gly Val His Leu Pro Ala Val Lys Leu
 65 70 75 80
 Arg Arg His Val Glu Met Tyr Gln Trp Val Glu Thr Glu Glu Ser Arg
 85 90 95
 Glu Tyr Thr Glu Asp Gly Gln Val Lys Lys Glu Thr Arg Tyr Ser Tyr
 100 105 110
 Asn Thr Glu Trp Arg Ser Glu Ile Ile Asn Ser Lys Asn Phe Asp Arg
 115 120 125
 Glu Ile Gly His Lys Asn Pro Ser Ala Met Ala Val Glu Ser Phe Met
 130 135 140
 Ala Thr Ala Pro Phe Val Gln Ile Gly Arg Phe Phe Leu Ser Ser Gly
 145 150 155 160
 Leu Ile Asp Lys Val Asp Asn Phe Lys Ser Leu Ser Leu Ser Lys Leu
 165 170 175

Glu Asp Pro His Val Asp Ile Ile Arg Arg Gly Asp Phe Phe Tyr His
 180 185 190
 Ser Glu Asn Pro Lys Tyr Pro Glu Val Gly Asp Leu Arg Val Ser Phe
 195 200 205
 Ser Tyr Ala Gly Leu Ser Gly Asp Asp Pro Asp Leu Gly Pro Ala His
 210 215 220
 Val Val Thr Val Ile Ala Arg Gln Arg Gly Asp Gln Leu Val Pro Phe
 225 230 235 240
 Ser Thr Lys Ser Gly Asp Thr Leu Leu Leu Leu His His Gly Asp Phe
 245 250 255
 Ser Ala Glu Glu Val Phe His Arg Glu Leu Arg Ser Asn Ser Met Lys
 260 265 270
 Thr Trp Gly Leu Arg Ala Ala Gly Trp Met Ala Met Phe Met Gly Leu
 275 280 285
 Asn Leu Met Thr Arg Ile Leu Tyr Thr Leu Val Asp Trp Phe Pro Val
 290 295 300
 Phe Arg Asp Leu Val Asn Ile Gly Leu Lys Ala Phe Ala Phe Cys Val
 305 310 315 320
 Ala Thr Ser Leu Thr Leu Leu Thr Val Ala Ala Gly Trp Leu Phe Tyr
 325 330 335
 Arg Pro Leu Trp Ala Leu Leu Ile Ala Gly Leu Ala Leu Val Pro Ile
 340 345 350
 Leu Val Ala Arg Thr Arg Val Pro Ala Lys Lys Leu Glu
 355 360 365

<210> 604

<211> 608

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (597)

<223> Xaa equals any of the naturally occurring amino acids

<400> 604

Met Val Gly Thr Lys Leu Arg Gln Thr Lys Asp Ala Leu Phe Thr Ile
 1 5 10 15

Leu His Asp Leu Arg Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser
 20 25 30
 Asn Arg Ile Lys Val Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp
 35 40 45
 Ser Ile Arg Asp Gly Lys Val Tyr Ile His His Met Ser Pro Thr Gly
 50 55 60
 Gly Thr Asp Ile Asn Gly Val Leu Gln Arg Ala Ile Arg Leu Leu Asn
 65 70 75 80
 Lys Tyr Val Ala His Ser Gly Ile Gly Asp Arg Ser Val Ser Leu Ile
 85 90 95
 Val Phe Leu Thr Asp Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu
 100 105 110
 Lys Ile Leu Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile
 115 120 125
 Phe Thr Ile Gly Ile Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys
 130 135 140
 Leu Ser Leu Glu Asn Cys Gly Leu Thr Arg Arg Val His Glu Glu Glu
 145 150 155 160
 Asp Ala Gly Ser Gln Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro
 165 170 175
 Leu Leu Ser Asp Ile Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln
 180 185 190
 Ala Thr Lys Thr Leu Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile
 195 200 205
 Ile Ala Gly Lys Leu Val Asp Arg Lys Leu Asp His Leu His Val Glu
 210 215 220
 Val Thr Ala Ser Asn Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val
 225 230 235 240
 Pro Val Arg Pro Gln Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg
 245 250 255
 Pro Gly Gly Asp Gly Glu Gly Asp Xaa Asn His Ile Glu Arg Leu Trp
 260 265 270
 Ser Tyr Leu Thr Thr Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp
 275 280 285
 Asp Glu Pro Glu Lys Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala
 290 295 300
 Val Ser Tyr Arg Phe Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly
 305 310 315 320

Pro Val Pro Arg Met Asp Gly Leu Glu Glu Ala His Gly Met Ser Ala
 325 330 335
 Ala Met Gly Pro Glu Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr
 340 345 350
 Gln Pro Gly Pro Leu Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile
 355 360 365
 Ser Lys Thr Ser Val Asp Gly Asp Pro His Phe Val Val Asp Phe Pro
 370 375 380
 Leu Ser Arg Leu Thr Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp
 385 390 395 400
 Ile Leu Arg Leu Val Ser Asp His Arg Asp Ser Gly Val Thr Val Asn
 405 410 415
 Gly Glu Leu Ile Gly Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln
 420 425 430
 Arg Thr Tyr Leu Arg Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg
 435 440 445
 Ser Tyr Leu Glu Ile Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp
 450 455 460
 Arg Leu Val Leu Pro Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly
 465 470 475 480
 Leu Glu Val Ser Val Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln
 485 490 495
 Gly Ser Ile Ala Phe Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala
 500 505 510
 Pro Phe Gln Arg His His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly
 515 520 525
 Leu Ser Ser Asn Cys His Gly Leu Leu Gly Gln Phe Leu Asn Gln Asp
 530 535 540
 Ala Arg Leu Thr Glu Asp Pro Ala Gly Pro Ser Gln Asn Leu Thr His
 545 550 555 560
 Pro Leu Leu Leu Gln Val Gly Glu Gly Pro Glu Ala Val Leu Thr Val
 565 570 575
 Lys Gly His Gln Val Pro Val Val Trp Lys Gln Arg Lys Ile Tyr Asn
 580 585 590
 Gly Glu Glu Gln Xaa Asp Cys Trp Phe Ala Arg Asn Met Pro Pro Asn
 595 600 605

<210> 605
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 605
 Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
 1 5 10 15
 Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
 20 25 30
 Ile Cys Ser Gln Arg Ser Ser Ser Trp Glu Met Pro Pro Gln Gly Pro
 35 40 45
 Ala Pro Asp His Val Gly Arg Ala
 50 55

<210> 606
 <211> 540
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 606
 Met Val Arg Thr Asp Gly His Thr Leu Ser Glu Lys Arg Asn Tyr Gln
 1 5 10 15
 Val Thr Asn Ser Met Phe Gly Ala Ser Arg Lys Lys Phe Val Glu Gly
 20 25 30
 Val Asp Ser Asp Tyr His Asp Glu Asn Met Tyr Tyr Ser Gln Ser Ser
 35 40 45
 Met Phe Pro His Arg Ser Gln Lys Asp Met Leu Ala Ser Pro Ser Thr
 50 55 60
 Ser Gly Gln Leu Ser Gln Phe Gly Ala Ser Leu Tyr Gly Gln Gln Ser
 65 70 75 80
 Ala Leu Gly Leu Pro Met Arg Gly Met Ser Asn Asn Thr Pro Gln Leu
 85 90 95
 Asn Arg Ser Leu Ser Gln Gly Thr Gln Leu Pro Ser His Val Thr Pro
 100 105 110
 Thr Thr Gly Val Pro Thr Met Ser Leu His Thr Pro Pro Ser Pro Ser
 115 120 125

Arg Gly Ile Leu Pro Met Asn Pro Xaa Asn Met Met Asn His Ser Gln
 130 135 140
 Val Gly Gln Gly Ile Gly Ile Pro Ser Arg Thr Asn Ser Met Se Ser
 145 150 155 160
 Ser Gly Leu Gly Ser Pro Asn Arg Ser Ser Pro Ser Ile Ile Cys Met
 165 170 175
 Pro Lys Gln Gln Pro Ser Arg Gln Pro Phe Thr Val Asn Se Met Ser
 180 185 190
 Gly Phe Gly Met Asn Arg Asn Gln Ala Phe Gly Met Asn Asn Ser Leu
 195 200 205
 Ser Ser Asn Ile Phe Asn Gly Thr Asp Gly Ser Glu Asn Val Thr Gly
 210 215 220
 Leu Asp Leu Ser Asp Phe Pro Ala Leu Ala Asp Arg Asn Arg Arg Glu
 225 230 235 240
 Gly Ser Gly Asn Pro Thr Pro Leu Ile Asn Pro Leu Ala Gly Arg Ala
 245 250 255
 Pro Tyr Val Gly Met Val Thr Lys Pro Ala Asn Glu Gln Ser Gln Asp
 260 265 270
 Phe Ser Ile His Asn Glu Asp Phe Pro Ala Leu Pro Gly Ser Ser Tyr
 275 280 285
 Lys Asp Pro Thr Ser Ser Asn Asp Asp Ser Lys Ser Asn Leu Asn Thr
 290 295 300
 Ser Gly Lys Thr Thr Ser Ser Thr Asp Gly Pro Lys Phe Pro Gly Asp
 305 310 315 320
 Lys Ser Ser Thr Thr Gln Asn Asn Asn Gln Gln Lys Lys Gly Ile Gln
 325 330 335
 Val Leu Pro Asp Gly Arg Val Thr Asn Ile Pro Gln Gly Met Val Thr
 340 345 350
 Asp Gln Phe Gly Met Ile Gly Leu Leu Thr Phe Ile Arg Ala Ala Glu
 355 360 365
 Thr Asp Pro Gly Met Val His Leu Ala Leu Gly Ser Asp Leu Thr Thr
 370 375 380
 Leu Gly Leu Asn Leu Asn Ser Pro Glu Asn Leu Tyr Pro Lys Phe Ala
 385 390 395 400
 Ser Pro Trp Ala Ser Ser Pro Cys Arg Pro Gln Asp Ile Asp Phe His
 405 410 415
 Val Pro Ser Glu Tyr Leu Thr Asn Ile His Ile Arg Asp Lys Leu Ala
 420 425 430

Ala Ile Lys Leu Gly Arg Tyr Gly Glu Asp Leu Leu Phe Tyr Leu Tyr
435 440 445

Tyr Met Asn Gly Gly Asp Val Leu Gln Leu Leu Ala Ala Val Glu Leu
450 455 460

Phe Asn Arg Asp Trp Arg Tyr His Lys Glu Glu Arg Val Trp Ile Thr
465 470 475 480

Arg Ala Pro Gly Met Glu Pro Thr Met Lys Thr Asn Thr Tyr Glu Arg
485 490 495

Gly Thr Tyr Tyr Phe Phe Asp Cys Leu Asn Trp Arg Lys Val Ala Lys
500 505 510

Glu Phe His Leu Glu Tyr Asp Lys Leu Glu Glu Arg Pro His Leu Pro
515 520 525

Ser Thr Phe Asn Tyr Asn Pro Ala Gln Gln Ala Phe
530 535 540

<210> 607
<211> 19
<212> PRT
<213> Homo sapiens

<400> 607
Met Ala Ala His Ser Val Leu Ser Phe Leu Leu Trp Thr Pro Tyr Ala
1 5 10 15
Leu Lys Ser

<210> 608
<211> 99
<212> PRT
<213> Homo sapiens

<400> 608
Met Leu Phe Phe Leu Ser Leu Phe Leu Ser Leu Leu Leu Thr Leu Ser
1 5 10 15
Leu Pro Ser Phe Leu Pro Phe Ser Phe Phe Phe Ser Leu Phe Pro
20 25 30
His Leu Ser Ala Cys Leu Leu Pro Ser Leu Pro Ser Pro Pro Phe Pro
35 40 45
Leu Pro Pro Ser Leu Pro Ser Phe Leu Pro Ser Phe Leu Pro Ser Phe
50 55 60
Leu Pro Ser Leu Leu Ser Pro Ser Phe Pro Ala Phe Phe Pro Ser Phe
65 70 75 80

Cys Gln Leu Ala Arg Arg Ser Pro Arg Lys Ser Thr Gln Met Leu Gln
85 90 95

Ser Thr Ser

<210> 609
<211> 66
<212> PRT
<213> Homo sapiens

<400> 609
Met Asn Tyr Ile Phe Leu Leu Met Ala Leu Pro His Leu Ile Ala Ile
1 5 10 15
Ala Leu Thr Trp Gly Arg Tyr Ser Phe Ser Cys Leu Ala Asn Lys Glu
20 25 30
Thr Glu Phe Gln Arg Cys Gln Val Thr Cys Leu Leu His Thr Leu Gly
35 40 45
Val Leu Met Phe Asn Phe Glu Leu Arg Ser Ile Trp Leu Glu Ser Ser
50 55 60
Leu His
65

<210> 610
<211> 72
<212> PRT
<213> Homo sapiens

<400> 610
Met Arg His Thr Cys Ile Val Asn Ile Ala Ala Ser Leu Leu Val Ala
1 5 10 15
Asn Thr Trp Phe Ile Val Val Ala Ala Ile Gln Asp Asn Arg Tyr Ile
20 25 30
Leu Cys Lys Thr Ala Cys Val Ala Ala Thr Phe Phe Ile His Phe Phe
35 40 45
Tyr Leu Ser Val Phe Phe Trp Met Leu Thr Leu Gly Pro His Ala Val
50 55 60
Leu Ser Pro Gly Phe His Ser Ala
65 70

<210> 611
<211> 41

<212> PRT

<213> Homo sapiens

<400> 611

Met Ile Asn Phe Trp Pro Val Thr His Val Cys Ile Trp Leu Leu Trp
1 5 10 15

Leu Gln Ala Leu Glu Ala Arg Gly Gln Gly Ser Asn Ile Asp Cys Thr
20 25 30

Arg Asn Ser Lys Thr Val Phe Thr Ser
35 40

<210> 612

<211> 201

<212> PRT

<213> Homo sapiens

<400> 612

Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu Leu
1 5 10 15

Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu
20 25 30

Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu
35 40 45

Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr
50 55 60

Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg
65 70 75 80

Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu
85 90 95

Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile
100 105 110

Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val
115 120 125

Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile
130 135 140

Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val
145 150 155 160

Gly Met Ala Met Val Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu
165 170 175

Tyr Arg Lys Ala Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Glu
180 185 190

Glu Lys Arg Asn Lys Ser Lys Lys Lys
 195 200

<210> 613
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 613
 Met Pro Pro Lys Gln Ile Pro Leu Thr Ser Leu Ser Leu Leu Aa Leu
 1 5 10 15
 Leu Leu Phe Phe Phe Phe Lys Ile Phe Cys Leu Leu Phe Leu Phe Tyr
 20 25 30
 Pro Leu Pro Asp Glu Ser Glu His Phe
 35 40

<210> 614
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 614
 Met Glu Ala Val Val Phe Val Phe Ser Leu Leu Asp Cys Cys Ala Leu
 1 5 10 15
 Ile Phe Leu Ser Val Tyr Phe Ile Ile Thr Leu Ser Asp Leu Glu Cys
 20 25 30
 Asp Tyr Ile Asn Ala Arg Ser Cys Cys Ser Lys Leu Asn Lys Trp Val
 35 40 45
 Ile Pro Glu Leu Ile Gly His Thr Ile Val Thr Val Leu Leu Le Met
 50 55 60
 Ser Leu His Trp Phe Ile Phe Leu Leu Asn Leu Pro Val Ala Thr Trp
 65 70 75 80
 Asn Ile Tyr Arg Tyr Ile Met Val Pro Ser Gly Asn Met Gly Val Phe
 85 90 95
 Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu Lys Ser His Met Lys
 100 105 110
 Glu Ala Met Ile Lys Leu Gly Phe His Leu Leu Cys Phe Phe Met Tyr
 115 120 125
 Leu Tyr Ser Met Ile Leu Ala Leu Ile Asn Asp
 130 135

<210> 615
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 615
 Met Leu Gly Leu Pro Trp Lys Gly Gly Leu Ser Trp Ala Leu LeuLeu
 1 5 10 15
 Leu Leu Leu Gly Ser Gln Ile Leu Leu Ile Tyr Ala Trp His Phe His
 20 25 30
 Glu Gln Arg Asp Cys Asp Glu His Asn Val Met Ala Arg Tyr Leu Pro
 35 40 45
 Ala Thr Val Glu Phe Ala Val His Thr Phe Asn Gln Gln Ser Lys Asp
 50 55 60
 Tyr Tyr Ala Tyr Arg Leu Gly His Ile Leu Asn Ser Trp Lys Glu Gln
 65 70 75 80
 Val Glu Ser Lys Thr Val Phe Ser Met Glu Leu Leu Leu Gly Arg Thr
 85 90 95
 Arg Cys Gly Lys Phe Glu Asp Asp Ile Asp Asn Cys His Phe Gln Glu
 100 105 110
 Ser Thr Glu Leu Asn Asn Thr Phe Thr Cys Phe Phe Thr Ile Ser Thr
 115 120 125
 Arg Pro Trp Met Thr Gln Phe Ser Leu Leu Asn Lys Thr Cys Leu Glu
 130 135 140
 Gly Phe His
 145

<210> 616
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 616
 Met Lys Ser Leu Leu Phe Thr Leu Ala Val Phe Met Leu Leu Ala Gln
 1 5 10 15
 Leu Val Ser Gly Asn Trp Tyr Val Lys Lys Cys Leu Asn Asp Val Gly
 20 25 30
 Ile Cys Lys Lys Lys Cys Lys Pro Glu Glu Met His Val Lys Asn Gly
 35 40 45
 Trp Ala Met Cys Gly Lys Gln Arg Asp Cys Cys Val Pro Ala Asp Arg
 50 55 60
 Arg Ala Asn Tyr Pro Val Phe Cys Val Gln Thr Lys Thr Thr Arg Ile

1	5	10	15
Val Ile Pro Ala Tyr Ser Gly Glu Lys Lys Cys Trp Asn Arg Ser Gly	20	25	30
His Cys Arg Lys Gln Cys Lys Asp Gly Glu Ala Val Lys Asp Thr Cys	35	40	45
Lys Asn Leu Arg Ala Cys Cys Ile Pro Ser Asn Glu Asp His Arg Arg	50	55	60
Val Pro Ala Thr Ser Pro Thr Pro Leu Ser Asp Ser Thr Pro Gly Ile	65	70	75
Ile Asp Asp Ile Leu Thr Val Arg Phe Thr Thr Asp Tyr Phe Glu Val	85	90	95
Ser Ser Lys Lys Asp Met Val Glu Glu Ser Glu Ala Gly Arg Gly Thr	100	105	110
Glu Thr Ser Leu Pro Asn Val His His Ser Ser	115	120	

<210> 620
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 620
Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu
1 5 10 15
Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu
20 25 30
Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu
35 40 45
Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys
50 55 60
Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu
65 70 75 80
Pro Lys Arg Lys Asn Thr Trp Asn Phe Leu Lys Cys Ala Tyr Met Val
85 90 95
Met Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr Phe
100 105 110
Ser Ser Gln Val Leu Leu Pro Leu Leu
115 120

<210> 621
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 621
 Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile
 1 5 10 15
 Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val
 20 25 30
 Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro
 35 40 45
 Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro
 50 55 60
 Leu Ile Ser Gly Pro Asp Leu Pro Pro Ala Leu Arg Ala Ala Pro Gly
 65 70 75 80
 Ala Glu Ser Ala Leu Leu Gly
 85

<210> 622
 <211> 116
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 622
 Met Pro Gly Gly Thr Arg Cys Arg Val Leu Leu Leu Ser Leu Thr Phe
 1 5 10 15
 Gly Thr Ser Met Ala Cys Gly Asn Val Gly Leu Arg Leu Cys Pro Trp
 20 25 30
 Thr Trp His Asn Trp Leu Leu Pro Pro His Leu Cys Ser Xaa Trp Pro
 35 40 45
 Cys Arg Arg Cys Cys Trp Ala Ala Ala Thr Thr His Phe Ser Trp Pro
 50 55 60
 Pro Trp Val Arg Ser Ala Trp Gly Pro Pro Ala Ala Trp Leu Glu Ser
 65 70 75 80
 Ser Gly His Pro Leu Pro Ala Val Ala Ser Cys Ser Gln Pro Pro Ala
 85 90 95
 Ser Ala Asp Ser Ser Arg Phe Ser Lys Val Pro Cys Cys Arg Arg Arg
 100 105 110

Gly Trp Thr Arg
115

<210> 623
<211> 86
<212> PRT
<213> Homo sapiens

<400> 623
Met Pro Trp His Val Cys Phe Phe Leu Ser Gly Leu Leu Phe Pro Ser
1 5 10 15
Pro Gln Thr Ser Leu Gln His Leu Cys Leu Leu Thr Ser Leu Ile Leu
20 25 30
Gly Val Thr Ile Ser Ala Tyr Glu His Ala Ile Asn Leu Pro Ser Leu
35 40 45
Gln Asn Ser Leu Leu Thr Ser His Pro Ser Val Ala Ala Leu Ser Leu
50 55 60
Leu Ser Ser Ser Leu Gln Gln Asn Ser Leu Lys Glu Leu Leu Ala Gly
65 70 75 80
His Ser Gly Ser Leu Leu
85

<210> 624
<211> 61
<212> PRT
<213> Homo sapiens

<400> 624
Met Phe Cys Trp Ile Leu Val Cys Leu Ala Tyr Leu Lys Val Pro Leu
1 5 10 15
Leu Phe Phe Phe Phe Phe Phe Leu Ser Ala Leu Phe Cys Arg Thr Cys
20 25 30
Ser Asn Met Glu Asn Lys Ser Arg Arg Leu Ser Ser Asp Cys Tyr Leu
35 40 45
Cys Pro Lys Pro Pro Gln Thr Phe Met Leu Met Phe Tyr
50 55 60

<210> 625
<211> 352
<212> PRT
<213> Homo sapiens

<400> 625

Met Leu Cys Arg Leu Cys Trp Leu Val Ser Tyr Ser Leu Ala Val Leu
1 5 10 15
Leu Leu Gly Cys Leu Leu Phe Leu Arg Lys Ala Ala Lys Pro Ala Glu
20 25 30
Thr Pro Arg Pro Thr Ser Leu Ser Gly Ala Pro Pro Thr Pro Arg His
35 40 45
Ser Arg Cys Pro Pro Asn His Thr Val Ser Ser Ala Ser Leu Ser Leu
50 55 60
Pro Ser Arg His Arg Leu Phe Leu Thr Tyr Arg His Cys Arg Asn Phe
65 70 75 80
Ser Ile Leu Leu Glu Pro Ser Gly Cys Ser Lys Asp Thr Phe Leu Leu
85 90 95
Leu Ala Ile Lys Ser Gln Pro Gly His Val Glu Arg Arg Ala Ala Ile
100 105 110
Arg Ser Thr Trp Gly Arg Trp Gly Asp Gly Leu Gly Pro Ala Leu Lys
115 120 125
Leu Val Phe Leu Leu Gly Val Ala Gly Ser Ala Pro Pro Ala Gln Leu
130 135 140
Leu Ala Tyr Glu Ser Arg Glu Phe Asp Asp Ile Leu Gln Trp Asp Phe
145 150 155 160
Thr Glu Asp Phe Phe Asn Leu Thr Leu Lys Glu Leu His Leu Gln Arg
165 170 175
Trp Val Val Ala Ala Cys Pro Gln Ala His Phe Met Leu Lys Gly Asp
180 185 190
Asp Asp Val Phe Val His Val Pro Asn Val Leu Glu Phe Leu Asp Gly
195 200 205
Trp Asp Pro Ala Gln Asp Leu Leu Val Gly Asp Val Ile Arg Gln Ala
210 215 220
Leu Pro Asn Arg Asn Thr Lys Val Lys Tyr Phe Ile Pro Pro Ser Met
225 230 235 240
Tyr Arg Ala Thr His Tyr Pro Pro Tyr Ala Gly Gly Gly Gly Tyr Val
245 250 255
Met Ser Arg Ala Thr Val Arg Arg Leu Gln Ala Ile Met Glu Asp Ala
260 265 270
Glu Leu Phe Pro Ile Asp Asp Val Phe Val Gly Met Cys Leu Arg Arg
275 280 285
Leu Gly Leu Ser Pro Met His His Ala Gly Phe Lys Thr Phe Gly Ile
290 295 300

Arg Arg Pro Leu Asp Pro Leu Asp Pro Cys Leu Tyr Arg Gly Leu Leu
 305 310 315 320

Leu Val His Arg Leu Ser Pro Leu Glu Met Trp Thr Met Trp Ala Leu
 325 330 335

Val Thr Asp Glu Gly Leu Lys Cys Ala Ala Gly Pro Ile Pro Gln Arg
 340 345 350

<210> 626
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 626
 Gly Leu Leu Tyr Ile Met Tyr Cys Asn Ile
 1 5 10

<210> 627
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 627
 Met Val Lys Trp Ile Ile Leu Ser Cys Leu Ile Leu Lys Gly Lys Arg
 1 5 10 15

Thr Leu Asn Ser Ser Thr Phe Tyr Ala Ala Asn Lys Ser Ser Thr Ile
 20 25 30

Asn Arg Asn Leu Ser Trp Gln Ala Leu Pro Phe Thr His
 35 40 45

<210> 628
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 628
 Met Arg Ser Tyr Phe Pro Phe Ser Val Cys Pro Phe Pro Phe Cys Ser
 1 5 10 15

Pro Val Phe Phe Phe Val Phe Thr Asp Val Tyr Leu Cys Phe Phe Phe
 20 25 30

Val Phe Ala Val Gly Arg His Leu Ser Asp Pro Phe Pro Ile Leu Phe
 35 40 45

Phe Thr His Lys Cys Pro Asp Val
50 55

<210> 629
<211> 38
<212> PRT
<213> Homo sapiens

<400> 629
Met Leu Lys Leu Ala Thr Ile Leu Leu Thr Leu Leu Leu Lys Asn Leu
1 5 10 15
Asp Ala Gly Leu Thr Asp Lys Leu Ser Arg Ser Asn Phe Ile Thr Asp
20 25 30
Phe Ile Leu Thr Lys Tyr
35

<210> 630
<211> 44
<212> PRT
<213> Homo sapiens

<400> 630
Met Pro Cys His Gly Leu Leu Ala Gln Gly Leu Ser Leu Ala Pro Leu
1 5 10 15
Pro Pro Trp Ala Leu Cys Cys Val Gly Val Ser Arg Ala Leu Gln Asp
20 25 30
Ile Gln Gln His Pro Arg Pro Pro Ala Pro Cys Gln
35 40

<210> 631
<211> 34
<212> PRT
<213> Homo sapiens

<400> 631
Met Gln Ala Arg Trp Phe His Ile Leu Gly Met Met Met Phe Ile Trp
1 5 10 15
Ser Ser Ala His Gln Tyr Lys Cys Pro Cys Tyr Ser Arg Gln Ser Gln
20 25 30
Glu Lys

<210> 632
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 632
 Met Val His Asn Cys Leu Leu Leu Leu Lys Phe Leu Leu Leu Phe Cys
 1 5 10 15
 Phe Pro Leu Ile Ser Tyr Gln Leu Met Asn Gly Ser Leu Gln Ser Leu
 20 25 30
 Gln Arg Leu Arg Met Ile Gln Asn Val Gln Cys Ile Val Leu Asn Lys
 35 40 45
 Gln Glu Ala Glu Phe Leu Met Gly Ile Ser Phe Gln Ile Tyr Asp Trp
 50 55 60
 Ser Leu Gly Phe
 65

<210> 633
 <211> 194
 <212> PRT
 <213> Homo sapiens

<400> 633
 Met Lys Leu Ala Ser Gly Phe Leu Val Leu Trp Leu Ser Leu Gly Gly
 1 5 10 15
 Gly Leu Ala Gln Ser Asp Thr Ser Pro Asp Thr Glu GluSer Tyr Ser
 20 25 30
 Asp Trp Gly Leu Arg His Leu Arg Gly Ser Phe Glu Ser Val Asn Ser
 35 40 45
 Tyr Phe Asp Ser Phe Leu Glu Leu Leu Gly Gly Lys Asn Gly Val Cys
 50 55 60
 Gln Tyr Arg Cys Arg Tyr Gly Lys Ala Pro Met Pro Arg Pro Gly Tyr
 65 70 75 80
 Lys Pro Gln Glu Pro Asn Gly Cys Gly Ser Tyr Phe Leu Gly Leu Lys
 85 90 95
 Val Pro Glu Ser Met Asp Leu Gly Ile Pro Ala Met Thr Lys Cys Cys
 100 105 110
 Asn Gln Leu Asp Val Cys Tyr Asp Thr Cys Gly Ala Asn Lys Tyr Arg
 115 120 125
 Cys Asp Ala Lys Phe Arg Trp Cys Leu His Ser Ile Cys Ser Asp Leu
 130 135 140
 Lys Arg Ser Leu Gly Phe Val Ser Lys Val Glu Ala Cys Asp Ser Leu

145 150 155 160
 Val Asp Thr Val Phe Asn Thr Val Trp Thr Leu Gly Cys Arg Pro Phe
 165 170 175
 Met Asn Ser Gln Arg Ala Ala Cys Ile Cys Ala Glu Glu Glu Lys Glu
 180 185 190
 Glu Leu

<210> 634
 <211> 79
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (23)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 634
 Met Gly Cys Cys Ser Lys Lys Tyr Trp Gln Leu Leu Leu Gly Ala Ala
 1 5 10 15
 Pro Trp Gly Val Ile Pro Xaa Leu Leu Leu Trp Met Gly Thr Arg Ala
 20 25 30
 Pro His Phe Lys Asp Ser Val Ser Gln Gly Leu Pro Xaa Lys Ala Glu
 35 40 45
 Glu Ser Arg Ala Asn Phe Asn Gln Phe Leu Val Leu Leu Met Pro Lys
 50 55 60
 Glu Met Ile Val Leu Thr Ile Val His Pro Ile Val Arg Arg Ala
 65 70 75

<210> 635
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 635
 Met Thr Ser Asn Phe Pro Phe Cys Thr Leu Ile Leu Gly Ile Ala Gln
 1 5 10 15
 Ala Gln Ala Cys Pro Gly Cys Pro Gly Asp Trp Pro Gly Leu Gly Ser
 20 25 30

Gly Val Gly Glu Gly Leu His His Ile Arg Thr Cys Arg Trp Pro Ile
 35 40 45
 Pro Cys Ser Pro Pro Ala Pro Ala Ala Ala Cys Leu Gly Ser Gly His
 50 55 60
 Ala Arg Leu Pro Cys Val Leu Arg Leu Trp Pro Val Pro Ala Asn Leu
 65 70 75 80
 Ser Ser Pro Phe Arg Leu Glu Ala Leu His Cys Ser Phe Trp Ser Ser
 85 90 95
 Pro Leu Leu Pro Ala Pro His Leu Ala Phe Phe Gly Phe Arg Asp Leu
 100 105 110
 Leu Thr Asp Phe Leu Leu Ala Ala Cys Leu Leu Thr Phe Gln Lys Thr
 115 120 125
 Pro Leu Glu Leu Pro Met Ala Val Val His Leu Leu Val Ala Thr Pro
 130 135 140
 Cys Tyr Gln Met Leu Asp Asn Leu Pro Leu Pro Ser Ala Ala Ala Asn
 145 150 155 160
 Trp Cys

<210> 636
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 636
 Met Ile Leu Leu Ile Ser Gln Cys Pro Leu Ser Ile Phe Ala Ala Pro
 1 5 10 15
 Phe Ala Leu Pro Pro Lys Gly His Cys Gly Ser Phe Ser Asp Phe His
 20 25 30
 Ser Gln Val Thr Leu His Lys Asn Ser Lys Leu Ile Phe Arg Ser His
 35 40 45
 Lys Ser Ile Leu Leu
 50

<210> 637
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 637
 Met Leu Leu Phe Ser Ser Arg Phe Ile Met PheLeu Trp Pro Pro Val

1 5 10 15
 Ser Gly Val Cys Leu Ser Phe Ile Arg Asp Arg Ser Phe Leu Pro Met
 20 25 30
 Cys His Phe Ile Tyr Val Leu Ile Leu Cys Asn Ser Ile Ala Leu
 35 40 45

<210> 638
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 638
 Met Ser Tyr Lys Trp Asn Ser Arg Val Cys Phe Leu Trp Ser Arg Thr
 1 5 10 15
 Phe His Leu Met Leu Leu Arg Leu Ile Cys Leu Val Ala Tyr Ile Ser
 20 25 30
 Thr Glu Val Ile Ser Phe Ile Ala Glu
 35 40

<210> 639
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 639
 Met Thr Leu Met Cys Leu Cys Leu Ser Val Thr Val Leu His Pro Leu
 1 5 10 15
 Arg Ser Lys Glu Arg Leu Ser Gly Thr Phe Cys Gly Tyr Ser Ser Ser
 20 25 30
 Trp Cys Ser Pro Ala Ser Glu Ser Ser Ser Pro Gly Ser Leu Leu Thr
 35 40 45
 Cys Ala Ala Ser Gly Ser His Pro Asp Cys Pro Leu Ser Gln Arg Leu
 50 55 60
 Leu Gly Val Gln Leu Ala Ala Leu Gly Arg Pro Gln Gly Leu Phe
 65 70 75

<210> 640
 <211> 292
 <212> PRT
 <213> Homo sapiens

<400> 640
 Met Leu Arg Val Leu Cys Leu Leu Arg Pro Trp Arg Pro Leu Arg Ala

1	5	10	15
Arg Gly Cys Ala Ser Asp Gly Ala Ala Gly Gly Ser Glu Ile Gln Val	20	25	30
Arg Ala Leu Ala Gly Pro Asp Gln Gly Ile Thr Glu Ile Leu Met Asn	35	40	45
Arg Pro Ser Ala Arg Asn Ala Leu Gly Asn Val Phe Val Ser Glu Leu	50	55	60
Leu Glu Thr Leu Ala Gln Leu Arg Glu Asp Arg Gln Val Arg Val Leu	65	70	80
Leu Phe Arg Ser Gly Val Lys Gly Val Phe Cys Ala Gly Ala Asp Leu	85	90	95
Lys Glu Arg Glu Gln Met Ser Glu Ala Glu Val Gly Val Phe Val Gln	100	105	110
Arg Leu Arg Gly Leu Met Asn Asp Ile Ala Ala Phe Pro Ala Pro Thr	115	120	125
Ile Ala Ala Met Asp Gly Phe Ala Leu Gly Gly Gly Leu Glu Leu Ala	130	135	140
Leu Ala Cys Asp Leu Arg Val Ala Ala Ser Ser Ala Val Met Gly Leu	145	150	160
Ile Glu Thr Thr Arg Gly Leu Leu Pro Gly Ala Gly Gly Thr Gln Arg	165	170	175
Leu Pro Arg Cys Leu Gly Val Ala Leu Ala Lys Glu Leu Ile Phe Thr	180	185	190
Gly Arg Arg Leu Ser Gly Thr Glu Ala His Val Leu Gly Leu Val Asn	195	200	205
His Ala Val Ala Gln Asn Glu Glu Gly Asp Ala Ala Tyr Gln Arg Ala	210	215	220
Arg Ala Leu Ala Gln Glu Ile Leu Pro Gln Ala Pro Ile Ala Val Arg	225	230	235
Leu Gly Lys Val Ala Ile Asp Arg Gly Thr Glu Val Asp Ile Ala Ser	245	250	255
Gly Met Ala Ile Glu Gly Met Cys Tyr Ala Gln Asn Ile Pro Thr Arg	260	265	270
Asp Arg Leu Glu Gly Met Ala Ala Phe Arg Glu Lys Arg Thr Pro Lys	275	280	285
Phe Val Gly Lys	290		

<210> 641
 <211> 377
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (164)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (213)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 641
 Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Ser
 1 5 10 15
 Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly Val Ala Pro Ile
 20 25 30
 Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr
 35 40 45
 Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys
 50 55 60
 Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu
 65 70 75 80
 Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser
 85 90 95
 Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr
 100 105 110
 Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp
 115 120 125
 Tyr Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu
 130 135 140
 Glu Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp
 145 150 155 160
 Ile Lys Trp Xaa Ser Arg Trp Asp Thr Tyr Leu Thr Met Ser Asp Val
 165 170 175
 Gln Ile His Trp Phe Ser Ile Ile Asn Ser Val Val Val Val Phe Phe
 180 185 190
 Leu Ser Gly Ile Leu Ser Met Ile Ile Ile Arg Thr Leu Arg Lys Asp
 195 200 205
 Ile Ala Asn Tyr Xaa Lys Glu Asp Asp Ile Glu Asp Thr Met Glu Glu

210	215	220
Ser Gly Trp Lys Leu Val	His Gly Asp Val Phe Arg Pro Pro Pro Val	
225	230	235 240
Pro His Asp Pro Gln Leu Pro Ala Gly Leu Arg HisSer Ala Val Leu		
	245	250 255
Tyr Asp Pro His Arg His Leu Cys Ser His Ala Trp Asp Ala Val Ala		
	260	265 270
Leu Gln Pro Gly Ser Ser His Asp His Ser Leu Leu ProLeu His Val		
	275	280 285
His Gly Gly Val Trp Arg Ile Phe Cys Trp Pro Ser Val Pro His Phe		
	290	295 300
Lys Arg Pro Ser Val Glu Glu Arg Ser Leu Leu Tyr Gly Asn Ser Val		
305	310	315 320
Pro Trp Cys Gly Phe Trp His Leu Leu Arg Ile Glu Leu Leu His Leu		
	325	330 335
Gly Lys Ala Leu Ile Arg Ser Gly Ala Leu Ser His His Gly Gly Ser		
	340	345 350
Ala Val His Val Val Arg Asp Leu Pro Ala Pro Arg Leu Leu Gly Leu		
	355	360 365
Leu Leu Arg Leu Pro Lys Ala Ala Ile		
370	375	

<210> 642
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 642
 Met Ile Met Ala Gln Lys Ile Gly Gly Leu Thr Trp Trp Ala Ile Met
 1 5 10 15
 Phe Ile Ile Leu Phe Glu Ile Thr Gly Thr Ser Ser Ser Phe Leu Arg
 20 25 30
 Ile Asn Ala Leu Pro His Phe Ser Met Asn Arg Cys Gly Glu Ala Tyr
 35 40 45
 Phe Pro Phe Ser Tyr Leu Tyr Thr Ser Leu Gln Lys Gln Phe Leu Met
 50 55 60
 Lys Val Ser Gly Ile Val Lys Asn Leu Arg Gly Asn Asp Asp Trp Arg
 65 70 75 80
 Cys Phe Gly Val Phe Phe Cys Ile His Phe Leu Met Arg Lys Val Leu
 85 90 95

Asn Val Val Gln Val Arg Pro Asn Tyr Tyr Leu Thr Ile Ile Gly Arg
 100 105 110

Phe Tyr Val Ser Val Lys Val Phe Lys
 115 120

<210> 643
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 643
 Met Phe His Ser Ser Leu Leu Val Phe Leu Ser Leu Leu Ser Gln Glu
 1 5 10 15
 Ile Phe Thr Glu Tyr Asp Cys Met His Lys
 20 25

<210> 644
 <211> 76
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 644
 Met Asn Arg Gly Gln Arg Leu Cys Leu Ala Phe Val Ser Leu Phe Pro
 1 5 10 15
 Pro Cys Asn Ser Leu Xaa Pro Pro Pro Thr Leu Phe Pro Ser Pro Leu
 20 25 30
 Leu Pro Leu Ser Leu Thr Ser Pro Thr Pro His Ser Leu Ser Ser Leu
 35 40 45
 Ala Val Ser Cys Val Cys Val Gly Val Cys Val Phe Gly Cys Val Asn
 50 55 60
 Val Gly Ser Ser Thr Thr Gly Phe Cys Asn Leu Gly
 65 70 75

<210> 645
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 645

Met Tyr Ile Tyr Leu Ile His Leu Cys Met Cys Val Tyr Ile Tyr Ile
 1 5 10 15
 Tyr Ile Leu Leu Ile Ile Tyr Thr Leu Asp Pro Glu Pro Pro Ser Trp
 20 25 30
 Ser Pro Lys Leu Asp Ser His Leu Ser Leu Arg Gln Pro Ser Asn Asp
 35 40 45
 Arg Phe
 50

<210> 646
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 646
 Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg
 1 5 10 15
 Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg
 20 25 30
 Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala
 35 40 45
 Ser Met Val Ser Arg Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr
 50 55 60
 Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser
 65 70 75 80
 Lys Ser

<210> 647
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 647
 Met Phe Met Trp Thr Ile Ser Ile Val Thr Phe Ser Ile Pro Leu Th
 1 5 10 15
 Leu Pro Leu Pro Leu Arg Gly Glu Asn Lys Thr Leu Asn Gly Ser Asn
 20 25 30
 Ser Tyr Val Phe Tyr Phe Val Ser Glu Val Ser Lys Leu Leu Leu Leu
 35 40 45
 Ala Ser Phe Ser Leu Gly Gln Met Asp Val Ser Tyr Phe Pro Val Ser
 50 55 60

<210> 648
 <211> 390
 <212> PRT
 <213> Homo sapiens

<400> 648
 Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu
 1 5 10 15
 Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln
 20 25 30
 Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val
 35 40 45
 Val Leu Pro Ala Trp Tyr Thr Leu His Gly Glu Val Ser Ser Ser Gln
 50 55 60
 Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys
 65 70 75 80
 Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro
 85 90 95
 Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg
 100 105 110
 Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val
 115 120 125
 Asn Val Gln Asp Lys Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr
 130 135 140
 Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu
 145 150 155 160
 Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser
 165 170 175
 Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro
 180 185 190
 Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser
 195 200 205
 Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys
 210 215 220
 Lys Ala His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu
 225 230 235 240

Val Ser Thr Gly Pro Gly Ala Ala Val Val Ala Gly Ala Val Val Gly
 245 250 255
 Thr Leu Val Gly Leu Gly Leu Leu Ala Gly Leu Val Leu Leu Tyr His
 260 265 270
 Arg Arg Gly Lys Ala Leu Glu Glu Pro Ala Asn Asp Ile Lys Glu Asp
 275 280 285
 Ala Ile Ala Pro Arg Thr Leu Pro Trp Pro Lys Ser Ser Asp Thr Ile
 290 295 300
 Ser Lys Asn Gly Thr Leu Ser Ser Val Thr Ser Ala Arg Ala Leu Arg
 305 310 315 320
 Pro Pro His Gly Pro Pro Arg Pro Gly Ala Leu Thr Pro Thr Pro Ser
 325 330 335
 Leu Ser Ser Gln Ala Leu Pro Ser Pro Arg Leu Pro Thr Thr Asp Gly
 340 345 350
 Ala His Pro Gln Pro Ile Ser Pro Ile Pro Gly Gly Val Ser Ser Ser
 355 360 365
 Gly Leu Ser Arg Met Gly Ala Val Pro Val Met Val Pro Ala Gln Ser
 370 375 380
 Gln Ala Gly Ser Leu Val
 385 390

<210> 649

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring amino acids

<400> 649

Met Val Leu His Cys Ile Ala Trp Leu Gln Xaa Gly Ile SerPhe Leu
 1 5 10 15

Phe Leu Phe Leu Cys Val Ile Ala Ile Gly Ala Thr Asn Phe Ala Ser
 20 25 30

Pro Xaa Phe Tyr Lys Leu Val Ser Ser Gly Val Ala
 35 40

<210> 650
 <211> 89
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 650
 Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val Xaa Xaa Gly Thr Gln
 1 5 10 15
 Ser Pro Leu His Leu Ala Gly Ser Cys Pro Gly Gln Thr His Leu Ser
 20 25 30
 Phe Pro Leu Gly Gln Asp Arg Gly Gln Gln Leu Gln Gln Lys Gln Gln
 35 40 45
 Asp Leu Glu Gln Glu Gly Leu Glu Ala Thr Gln Gly Leu Leu Ala Gly
 50 55 60
 Glu Trp Ala Pro Pro Leu Trp Xaa Leu Gly Ser Leu Phe Gln Ala Phe
 65 70 75 80
 Val Lys Arg Glu Ser Gln Ala Tyr Ala
 85

<210> 651
 <211> 52
 <212> PRT
 <213> Homo sapiens

 <400> 651
 Met Leu Tyr Asp Ser Asn Leu Cys Ser Val Trp His Leu Tyr Leu Ile
 1 5 10 15
 Leu His Leu Cys Lys Thr Phe Val Tyr Cys Gly Cys Val His Ser Ser
 20 25 30
 Tyr Leu Ile Ser Gly Thr Val Asn Thr Gln Tyr Phe Ile Val Gln Thr
 35 40 45

Val Leu Leu Phe
50

<210> 652
<211> 66
<212> PRT
<213> Homo sapiens

<400> 652
Met Leu Leu Ile Ser Ala Val Gln Val Phe Ile Leu Leu Ser Pro Ser
1 5 10 15
Phe Tyr Leu Ile Leu Tyr Leu Leu Arg Pro Gly Gly Thr Gly Arg Gly
20 25 30
Leu Glu Pro Ile Cys Pro Ala Ala Glu Trp Gly Gly Trp Arg Asp Gly
35 40 45
Tyr Leu Trp Leu Gln Tyr Gln Glu Pro Thr Val Ser Leu Asp Asn Trp
50 55 60
Gly Asn
65

<210> 653
<211> 508
<212> PRT
<213> Homo sapiens

<400> 653
Met Asp Pro Lys Leu Gly Arg Met Ala Ala Ser Leu Leu Ala Val Leu
1 5 10 15
Leu Leu Leu Leu Leu Glu Arg Gly Met Phe Ser Ser Pro Ser Pro Pro
20 25 30
Pro Ala Leu Leu Glu Lys Val Phe Gln Tyr Ile Asp Leu His Gln Asp
35 40 45
Glu Phe Val Gln Thr Leu Lys Glu Trp Val Ala Ile Glu Ser Asp Ser
50 55 60
Val Gln Pro Val Pro Arg Phe Arg Gln Glu Leu Phe Arg Met Met Ala
65 70 75 80
Val Ala Ala Asp Thr Leu Gln Arg Leu Gly Ala Arg Val Ala Ser Val
85 90 95
Asp Met Gly Pro Gln Gln Leu Pro Asp Gly Gln Ser Leu Pro Ile Pro
100 105 110
Pro Val Ile Leu Ala Glu Leu Gly Ser Asp Pro Thr Lys Gly Thr Val

115					120					125					
Cys	Phe	Tyr	Gly	His	Leu	Asp	Val	Gln	Pro	Ala	Asp	Arg	Gly	Asp	Gly
130					135					140					
Trp	Leu	Thr	Asp	Pro	Tyr	Val	Leu	Thr	Glu	Val	Asp	Gly	Lys	Leu	Tyr
145					150					155					160
Gly	Arg	Gly	Ala	Thr	Asp	Asn	Lys	Gly	Pro	Val	Leu	Ala	Trp	Ile	Asn
				165					170					175	
Ala	Val	Ser	Ala	Phe	Arg	Ala	Leu	Glu	Gln	Asp	Leu	Pro	Val	Asn	Ile
			180					185					190		
Lys	Phe	Ile	Ile	Glu	Gly	Met	Glu	Glu	Ala	Gly	Ser	Val	Ala	Leu	Glu
	195						200					205			
Glu	Leu	Val	Glu	Lys	Glu	Lys	Asp	Arg	Phe	Phe	Ser	Gly	Val	Asp	Tyr
	210					215					220				
Ile	Val	Ile	Ser	Asp	Asn	Leu	Trp	Ile	Ser	Gln	Arg	Lys	Pro	Ala	Ile
225					230					235					240
Thr	Tyr	Gly	Thr	Arg	Gly	Asn	Ser	Tyr	Phe	Met	Val	Glu	Val	Lys	Cys
				245					250					255	
Arg	Asp	Gln	Asp	Phe	His	Ser	Gly	Thr	Phe	Gly	Gly	Ile	Leu	His	Glu
			260					265					270		
Pro	Met	Ala	Asp	Leu	Val	Ala	Leu	Leu	Gly	Ser	Leu	Val	Asp	Ser	Ser
		275					280					285			
Gly	His	Ile	Leu	Val	Pro	Gly	Ile	Tyr	Asp	Glu	Val	Val	Pro	Leu	Thr
	290					295					300				
Glu	Glu	Glu	Ile	Asn	Thr	Tyr	Lys	Ala	Ile	His	Leu	Asp	Leu	Glu	Glu
305					310					315					320
Tyr	Arg	Asn	Ser	Ser	Arg	Val	Glu	Lys	Phe	Leu	Phe	Asp	Thr	Lys	Glu
				325					330					335	
Glu	Ile	Leu	Met	His	Leu	Trp	Arg	Tyr	Pro	Ser	Leu	Ser	Ile	His	Gly
			340					345					350		
Ile	Glu	Gly	Ala	Phe	Asp	Glu	Pro	Gly	Thr	Lys	Thr	Val	Ile	Pro	Gly
		355					360					365			
Arg	Val	Ile	Gly	Lys	Phe	Ser	Ile	Arg	Leu	Val	Pro	His	Met	Asn	Val
	370					375					380				
Ser	Ala	Val	Glu	Lys	Gln	Val	Thr	Arg	His	Leu	Glu	Asp	Val	Phe	Ser
385					390					395					400
Lys	Arg	Asn	Ser	Ser	Asn	Lys	Met	Val	Val	Ser	Met	Thr	Leu	Gly	Leu
				405					410					415	
His	Pro	Trp	Ile	Ala	Asn	Ile	Asp	Asp	Thr	Gln	Tyr	Leu	Ala	Ala	Lys

Lys Arg Leu Glu Tyr Ile Ser Glu Ala Ala Phe Glu Gly Leu Val Asn
 180 185 190
 Leu Arg Tyr Leu Asn Leu Gly Met Cys Asn Leu Lys Asp Ile Pro Asn
 195 200 205
 Leu Thr Ala Leu Val Arg Leu Glu Glu Leu Glu Leu Ser Gly Asn Arg
 210 215 220
 Leu Asp Leu Ile Arg Pro Gly Ser Phe Gln Gly Leu Thr Ser Leu Arg
 225 230 235 240
 Lys Leu Trp Leu Met His Ala Gln Val Ala Thr Ile Glu Arg Asn Ala
 245 250 255
 Phe Asp Asp Leu Lys Ser Leu Glu Glu Leu Asn Leu Ser His Asn Asn
 260 265 270
 Leu Met Ser Leu Pro His Asp Leu Phe Thr Pro Leu His Arg Leu Glu
 275 280 285
 Gly Gly Pro Gly Thr Gln Phe
 290 295

<210> 655
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 655
 Met Cys Phe Thr Gln Phe Ser Arg Ile Phe Phe Leu Thr Ser Ser Leu
 1 5 10 15
 Thr Leu Ala Ala Cys Ala Asn His Ile Leu Ala Ala Tyr Ser Ser Ser
 20 25 30
 Leu Ala Asp Arg Cys Val Gly Glu Lys Ser Leu Ile Val Ile Val Pro
 35 40 45
 Glu Arg Ser Phe Gln Thr His Phe
 50 55

<210> 656
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 656
 Met Arg Lys Thr Ala Trp Leu Cys Phe Phe Phe Gln Leu Cys Gly Leu
 1 5 10 15
 Gly Gln Val Thr Ser Leu Gln Tyr Arg Asn Cys Asn Val Glu Ile Lys

20 25 30
 Pro Ser Leu Val Arg Gly Thr His Arg Ser Ile Pro
 35 40

<210> 657
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 657
 Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
 1 5 10 15
 Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Aa Gln Arg Gln Lys
 20 25 30
 Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
 35 40 45
 Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Asp Tyr Trp Gl Gln
 50 55 60
 Leu Arg Cys Leu Xaa Glu Arg Phe Thr Ile Thr Ala Gly
 65 70 75

<210> 658
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 658
 Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
 1 5 10 15
 Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
 20 25 30
 Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
 35 40 45
 Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
 50 55 60
 Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
 65 70 75 80
 Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met

85 90 95
 Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
 100 105

 <210> 659
 <211> 44
 <212> PRT
 <213> Homo sapiens

 <400> 659
 Met Arg Leu Arg Asn Gly Thr Val Ala Thr Ala Leu Ala Phe Ile Thr
 1 5 10 15
 Ser Phe Leu Thr Leu Ser Trp Tyr Thr Thr Trp Gln Asn Gly Lys Gly
 20 25 30
 Lys Glu Asn Asp Ser Glu Asn Val His Glu Met Tyr
 35 40

 <210> 660
 <211> 327
 <212> PRT
 <213> Homo sapiens

 <400> 660
 Met Ala Cys Arg Lys Leu Ala Val Ala His Pro Leu Leu Leu Leu Arg
 1 5 10 15
 His Leu Pro Met Ile Ala Ala Leu Leu His Gly Arg Thr His Leu Asn
 20 25 30
 Phe Gln Glu Phe Arg Gln Gln Asn His Leu Ser Cys Phe Leu His Val
 35 40 45
 Leu Gly Leu Leu Glu Leu Leu Gln Pro His Val Phe Arg Ser Glu His
 50 55 60
 Gln Gly Ala Leu Trp Asp Cys Leu Leu Ser Phe Ile Arg Leu Leu Leu
 65 70 75 80
 Asn Tyr Arg Lys Ser Ser Arg His Leu Ala Ala Phe Ile Asn Lys Phe
 85 90 95
 Val Gln Phe Ile His Lys Tyr Ile Thr Tyr Asn Ala Pro Ala Ala Ile
 100 105 110
 Ser Phe Leu Gln Lys His Ala Asp Pro Leu His Asp Leu Ser Phe Asp
 115 120 125
 Asn Ser Asp Leu Val Met Leu Lys Ser Leu Leu Ala Gly Leu Ser Leu
 130 135 140

Pro Ser Arg Asp Asp Arg Thr Asp Arg Gly Leu Asp Glu Glu Gly Glu
 145 150 155 160
 Glu Glu Ser Ser Ala Gly Ser Leu Pro Leu Val Ser Val Ser Leu Phe
 165 170 175
 Thr Pro Leu Thr Ala Ala Glu Met Ala Pro Tyr Met Lys Arg Leu Ser
 180 185 190
 Arg Gly Gln Thr Val Glu Asp Leu Leu Glu Val Leu Ser Asp Ile Asp
 195 200 205
 Glu Met Ser Arg Arg Arg Pro Glu Ile Leu Ser Phe Phe Ser Thr Asn
 210 215 220
 Leu Gln Arg Leu Met Ser Ser Ala Glu Glu Cys Cys Arg Asn Leu Ala
 225 230 235 240
 Phe Ser Leu Ala Leu Arg Ser Met Gln Asn Ser Pro Ser Ile Ala Ala
 245 250 255
 Ala Phe Leu Pro Thr Phe Met Tyr Cys Leu Gly Ser Gln Asn Phe Glu
 260 265 270
 Val Val Gln Thr Ala Leu Arg Asn Leu Pro Glu Tyr Ala Leu Leu Cys
 275 280 285
 Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly Met
 290 295 300
 Tyr Gly Gln Met Asp Pro Ser Ala Gln Ile Ser Glu Ala Leu Arg Ile
 305 310 315 320
 Leu His Met Glu Ala Val Met
 325

<210> 661

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring amino acids

<400> 661

Met Asn Val Thr Ser Val Ile Leu Val Leu Ile Leu Trp Asn Val Ile
 1 5 10 15

Gly Val Ala Thr Trp Val His Gln Asn Thr Phe Leu Tyr Lys Arg Gln
 20 25 30

Met Xaa Glu Leu Lys Arg Leu Lys Asp Arg Val Phe Cys Phe Phe Val
 35 40 45

Leu Ile Trp Leu Leu Gly Ile Lys Ile Arg Pro Arg Ser Leu Lys Ile
50 55 60
Ser Asn Arg Gly Arg Pro Leu Ile Asp Leu Lys Ser Val Asn Ser Leu
65 70 75 80

<210> 662
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring amino acids

<400> 662
Met Ala Ala Leu Leu Leu Leu Pro Trp Leu Met Leu Leu Thr Gly Arg
1 5 10 15
Val Ser Leu Ala Gln Phe Ala Leu Ala Phe Val Thr Asp Thr Cys Val
20 25 30
Ala Gly Ala Leu Leu Cys Gly Ala Xaa Leu Leu Phe His Gly Met Leu
35 40 45
Leu Leu Arg Gly Gln Thr Thr Trp Glu Trp Ala Arg Gly Gln His Ser
50 55 60
Tyr Asp Leu Gly Pro Cys His Asn Leu Gln Ala Ala Leu Gly Pro Arg
65 70 75 80
Trp Ala Leu Val Trp Leu Trp Pro Phe Leu Ala Ser Pro Leu Pro Gly
85 90 95
Asp Gly Ile Thr Phe Gln Thr Thr Ala Asp Val Gly Xaa Thr Ala Ser
100 105 110

<210> 663
<211> 91
<212> PRT

<213> Homo sapiens

<400> 663

Met Gly Asp Lys Leu Gly Met Ala Arg Ala Pro Ser Val Ala Leu Ala
1 5 10 15
Gln Leu Trp Leu Ile Cys Leu Cys Pro Glu Ser Leu Ala Ser Phe Val
20 25 30
Gln Ala Val Pro Trp Lys Val Leu Gln Pro Ser Ser Asn Arg Ser Thr
35 40 45
Asp Cys Ser Pro His Met Arg Pro Thr Cys Glu Thr Leu Gly Ser Arg
50 55 60
Lys Ala Gln Asp Leu Val Leu Asp Thr Met Cys Leu Ser Thr Asp Asp
65 70 75 80
Cys Gln Gly Leu Ile Cys Arg Gly His Arg Ser
85 90

<210> 664

<211> 223

<212> PRT

<213> Homo sapiens

<400> 664

Ala Trp Tyr Leu Leu Arg Val Gln Val Leu Gln Leu Val Ala ~~As~~ Tyr
1 5 10 15
Leu Ser Leu Pro Ser Asn Asn Leu Ser His Ser Leu Trp Glu Gln Leu
20 25 30
Cys Ala Gln Gly Trp Gln Thr Pro Glu Ile Ala Leu Ile Asp Ser His
35 40 45
Lys Leu Leu Arg Ser Ile Ile Leu Leu Leu Met Gly Ser Asp Ile Leu
50 55 60
Ser Thr Gln Lys Ala Ala Val Glu Thr Ser Phe Leu Asp Tyr Gly Glu
65 70 75 80
Asn Leu Val Gln Lys Trp Gln Val Leu Ser Glu Val Leu Ser Cys Ser
85 90 95
Glu Lys Leu Val Cys His Leu Gly Arg Leu Gly Ser Val Ser Glu Ala
100 105 110
Lys Ala Phe Cys Leu Glu Ala Leu Lys Leu Thr Thr Lys Leu Gln Ile
115 120 125
Pro Arg Gln Cys Ala Leu Phe Leu Val Leu Lys Gly Glu Leu Glu Leu
130 135 140
Ala Arg Asn Asp Ile Asp Leu Cys Gln Ser Asp Leu Gln Gln Val Leu

145 150 155 160
 Phe Leu Leu Glu Ser Cys Thr Glu Phe Gly Gly Val Thr Gln His Leu
 165 170 175
 Asp Ser Val Lys Lys Val His Leu Gln Lys Gly Lys Gln Gln Ala Gln
 180 185 190
 Val Pro Cys Pro Pro Gln Leu Pro Glu Glu Glu Leu Phe Leu Arg Gly
 195 200 205
 Pro Ala Leu Glu Leu Val Pro Leu Trp Pro Arg Ser Leu Ala Pro
 210 215 220

<210> 665
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 665
 Met Gly Val Leu Leu Leu Phe Ser Phe Phe Phe Pro Asn GlySer Phe
 1 5 10 15
 Ser Pro Val Val Leu Pro Ser Tyr Phe Pro Asn Ser Ser Ser Tyr Phe
 20 25 30
 Val Phe Cys Thr Ser Phe Trp Arg Pro Leu Ser Phe Gln Lys Gly
 35 40 45

<210> 666
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 666
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln
 1 5 10 15
 Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg
 20 25 30
 Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile
 35 40 45
 Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser
 50 55 60
 Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp
 65 70 75 80
 Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr
 85 90 95

Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn
 100 105 110
 Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser
 115 120 125
 Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala
 130 135 140
 Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu
 145 150 155 160
 Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys
 165 170 175
 Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr
 180 185 190
 His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His
 195 200 205
 Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val
 210 215 220
 Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile
 225 230 235 240
 Gly Tyr Gln

<210> 667
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 667
 Met Lys Leu Ser Gly Met Phe Leu Leu Leu Ser Leu Ala Leu Phe Cys
 1 5 10 15
 Phe Leu Thr Gly Val Phe Ser Gln Gly Gly Gln Val Asp Cys Gly Glu
 20 25 30
 Phe Gln Asp Thr Lys Val Tyr Cys Thr Arg Glu Ser Asn Pro His Cys
 35 40 45
 Gly Ser Asp Gly Gln Thr Tyr Gly Asn Lys Cys Ala Phe Cys Lys Ala
 50 55 60
 Ile Val Lys Ser Gly Gly Lys Ile Ser Leu Lys His Pro Gly Lys Cys
 65 70 75 80

<210> 668
 <211> 301
 <212> PRT
 <213> Homo sapiens

<400> 668

Met	Ala	Arg	His	Gly	Leu	Pro	Leu	Leu	Pro	Leu	Asn	Ser	Leu	Leu	Val
1				5					10					15	
Gly	Ala	Trp	Leu	Lys	Leu	Gly	Asn	Gly	Gln	Ala	Thr	Ser	Met	Val	Gln
			20					25					30		
Leu	Gln	Gly	Gly	Arg	Phe	Leu	Met	Gly	Thr	Asn	Ser	Pro	Asp	Ser	Arg
		35					40					45			
Asp	Gly	Glu	Gly	Pro	Val	Arg	Glu	Ala	Thr	Val	Lys	Pro	Phe	Ala	Ile
	50					55					60				
Asp	Ile	Phe	Pro	Val	Thr	Asn	Lys	Asp	Phe	Arg	Asp	Phe	Val	Arg	Glu
65					70				75						80
Lys	Lys	Tyr	Arg	Thr	Glu	Ala	Glu	Met	Phe	Gly	Trp	Ser	Phe	Val	Phe
				85					90					95	
Glu	Asp	Phe	Val	Ser	Asp	Glu	Leu	Arg	Asn	Lys	Ala	Thr	Gln	Pro	Met
			100					105					110		
Lys	Ser	Val	Leu	Trp	Trp	Leu	Pro	Val	Glu	Lys	Ala	Phe	Trp	Arg	Gln
		115					120					125			
Pro	Ala	Gly	Pro	Gly	Ser	Gly	Ile	Arg	Glu	Arg	Leu	Glu	His	Pro	Val
	130					135					140				
Leu	His	Val	Ser	Trp	Asn	Asp	Ala	Arg	Ala	Tyr	Cys	Ala	Trp	Arg	Gly
145					150					155					160
Lys	Arg	Leu	Pro	Thr	Glu	Glu	Glu	Trp	Glu	Phe	Ala	Ala	Arg	Gly	Gly
				165					170					175	
Leu	Lys	Gly	Gln	Val	Tyr	Pro	Trp	Gly	Asn	Trp	Phe	Gln	Pro	Asn	Arg
			180					185					190		
Thr	Asn	Leu	Trp	Gln	Gly	Lys	Phe	Pro	Lys	Gly	Asp	Lys	Ala	Glu	Asp
		195					200					205			
Gly	Phe	His	Gly	Val	Ser	Pro	Val	Asn	Ala	Phe	Pro	Ala	Gln	Asn	Asn
	210					215					220				
Tyr	Gly	Leu	Tyr	Asp	Leu	Leu	Gly	Asn	Val	Trp	Glu	Trp	Thr	Ala	Ser
225					230					235				240	
Pro	Tyr	Gln	Ala	Ala	Glu	Gln	Asp	Met	Arg	Val	Leu	Arg	Gly	Ala	Ser
			245						250					255	
Trp	Ile	Asp	Thr	Ala	Asp	Gly	Ser	Ala	Asn	His	Arg	Ala	Arg	Val	Thr
			260					265					270		

Thr Arg Met Gly Asn Thr Pro Asp Ser Ala Ser Asp Asn Leu Gly Phe
 275 280 285

Arg Cys Ala Ala Asp Ala Gly Arg Pro Pro Gly Glu Leu
 290 295 300

<210> 669
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 669
 Met Ala Ser Gly Ser Trp Thr Ser Ala Pro Gly Ile Gly Val Ile Leu
 1 5 10 15

Val Met Thr Val Cys Leu Ser His Cys Tyr Thr His Glu Trp Gly Leu
 20 25 30

Trp Gly Gly Gly Gly Thr Gln Gly Leu Thr Asp Ser
 35 40

<210> 670
 <211> 438
 <212> PRT
 <213> Homo sapiens

<400> 670
 Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro
 1 5 10 15

Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu
 20 25 30

Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala
 35 40 45

Trp Phe Ile Ala Gly Ile Phe Leu Leu Leu Thr Ile Pro Ile Ser Leu
 50 55 60

Trp Val Ile Leu Gln His Leu Val His Tyr Thr Gln Pro Glu Leu Gln
 65 70 75 80

Lys Pro Ile Ile Arg Ile Leu Trp Met Val Pro Ile Tyr Ser Leu Asp
 85 90 95

Ser Trp Ile Ala Leu Lys Tyr Pro Gly Ile Ala Ile Tyr Val Asp Thr
 100 105 110

Cys Arg Glu Cys Tyr Glu Ala Tyr Val Ile Tyr Asn Phe Met Gly Phe
 115 120 125

Leu Thr Asn Tyr Leu Thr Asn Arg Tyr Pro Asn Leu Val Leu Ile Leu

130	135	140
Glu Ala Lys Asp Gln Gln Lys His Phe Pro Pro Leu Cys Cys Cys Pro		
145	150	155 160
Pro Trp Ala Met Gly Glu Val Leu Leu Phe Arg Cys Lys Leu Gly Val		
	165	170 175
Leu Gln Tyr Thr Val Val Arg Pro Phe Thr Thr Ile Val Ala Leu Ile		
	180	185 190
Cys Glu Leu Leu Gly Ile Tyr Asp Glu Gly Asn Phe Ser Phe Ser Asn		
	195	200 205
Ala Trp Thr Tyr Leu Val Ile Ile Asn Asn Met Ser Gln Leu Phe Ala		
	210	215 220
Met Tyr Cys Leu Leu Leu Phe Tyr Lys Val Leu Lys Glu Glu Leu Ser		
	225	230 235 240
Pro Ile Gln Pro Val Gly Lys Phe Leu Cys Val Lys Leu Val Val Phe		
	245	250 255
Val Ser Phe Trp Gln Ala Val Val Ile Ala Leu Leu Val Lys Val Gly		
	260	265 270
Val Ile Ser Glu Lys His Thr Trp Glu Trp Gln Thr Val Glu Ala Val		
	275	280 285
Ala Thr Gly Leu Gln Asp Phe Ile Ile Cys Ile Glu Met Phe Leu Ala		
	290	295 300
Ala Ile Ala His His Tyr Thr Phe Ser Tyr Lys Pro Tyr Val Gln Glu		
	305	310 315 320
Ala Glu Glu Gly Ser Cys Phe Asp Ser Phe Leu Ala Met Trp Asp Val		
	325	330 335
Ser Asp Ile Arg Asp Asp Ile Ser Glu Gln Val Arg His Val Gly Arg		
	340	345 350
Thr Val Arg Gly His Pro Arg Lys Lys Leu Phe Pro Glu Asp Gln Asp		
	355	360 365
Gln Asn Glu His Thr Ser Leu Leu Ser Ser Ser Ser Gln Asp Ala Ile		
	370	375 380
Ser Ile Ala Ser Ser Met Pro Pro Ser Pro Met Gly His Tyr Gln Gly		
	385	390 395 400
Phe Gly His Thr Val Thr Pro Gln Thr Thr Pro Thr Thr Ala Lys Ile		
	405	410 415
Ser Asp Glu Ile Leu Ser Asp Thr Ile Gly Glu Lys Lys Glu Pro Ser		
	420	425 430
Asp Lys Ser Val Asp Ser		

435

<210> 671
<211> 107
<212> PRT
<213> Homo sapiens

<400> 671
Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
1 5 10 15
Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro
20 25 30
Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr
35 40 45
Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser
50 55 60
Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile
65 70 75 80
Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Glu Arg Arg Asp Ile
85 90 95
Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met
100 105

<210> 672
<211> 234
<212> PRT
<213> Homo sapiens

<400> 672
Met Arg Ile Arg Phe Thr Ser Pro His Pro Lys Asp Phe Pro Asp Glu
1 5 10 15
Val Leu Gln Leu Ile His Glu Arg Asp Asn Ile Cys Lys Gln Ile His
20 25 30
Leu Pro Ala Gln Ser Gly Ser Ser Arg Val Leu Glu Ala Met Arg Arg
35 40 45
Gly Tyr Ser Arg Glu Ala Tyr Val Glu Leu Val His His Ile Arg Glu
50 55 60
Ser Ile Pro Gly Val Ser Leu Ser Ser Asp Phe Ile Ala Gly Phe Cys
65 70 75 80
Gly Glu Thr Glu Glu Asp His Val Gln Thr Val Ser Leu Leu Arg Glu
85 90 95

Val Gln Tyr Asn Met Gly Phe Leu Phe Ala Tyr Ser Met Arg Gln Lys
 100 105 110
 Thr Arg Ala Tyr His Arg Leu Lys Asp Asp Val Pro Glu Glu Val Lys
 115 120 125
 Leu Arg Arg Leu Glu Glu Leu Ile Thr Ile Phe Arg Glu Glu Ala Thr
 130 135 140
 Lys Ala Asn Gln Thr Ser Val Gly Cys Thr Gln Leu Val Leu Val Glu
 145 150 155 160
 Gly Leu Ser Lys Arg Ser Ala Thr Asp Leu Cys Gly Arg Asn Asp Gly
 165 170 175
 Asn Leu Lys Val Ile Phe Pro Asp Ala Glu Met Glu Asp Val Asn Asn
 180 185 190
 Pro Gly Leu Arg Val Arg Ala Gln Pro Gly Asp Tyr Val Leu Val Lys
 195 200 205
 Ile Thr Ser Ala Ser Ser Gln Thr Leu Arg Gly His Val Leu Cys Arg
 210 215 220
 Thr Thr Leu Arg Asp Ser Ser Ala Tyr Cys
 225 230

<210> 673
 <211> 470
 <212> PRT
 <213> Homo sapiens

<400> 673
 Met Trp Phe Thr Tyr Leu Leu Leu Tyr Leu His Ser Val Arg Ala Tyr
 1 5 10 15
 Ser Ser Arg Gly Ala Gly Leu Leu Leu Leu Leu Gly Gln Val Ala Asp
 20 25 30
 Gly Leu Cys Thr Pro Leu Val Gly Tyr Glu Ala Asp Arg Ala Ala Ser
 35 40 45
 Cys Cys Ala Arg Tyr Gly Pro Arg Lys Ala Trp His Leu Val Gly Thr
 50 55 60
 Val Cys Val Leu Leu Ser Phe Pro Phe Ile Phe Ser Pro Cys Leu Gly
 65 70 75 80
 Cys Gly Ala Ala Thr Pro Glu Trp Ala Ala Leu Leu Tyr Tyr Gly Pro
 85 90 95
 Phe Ile Val Ile Phe Gln Phe Gly Trp Ala Ser Thr Gln Ile Ser His
 100 105 110
 Leu Ser Leu Ile Pro Glu Leu Val Thr Asn Asp His Glu Lys Val Glu

115					120					125					
Leu	Thr	Ala	Leu	Arg	Tyr	Ala	Phe	Thr	Val	Val	Ala	Asn	Ile	Thr	Val
	130					135					140				
Tyr	Gly	Ala	Ala	Trp	Leu	Leu	Leu	His	Leu	Gln	Gly	Ser	Ser	Arg	Val
145					150					155					160
Glu	Pro	Thr	Gln	Asp	Ile	Ser	Ile	Ser	Asp	Gln	Leu	Gly	Gly	Gln	Asp
				165					170					175	
Val	Pro	Val	Phe	Arg	Asn	Leu	Ser	Leu	Leu	Val	Val	Gly	Val	Gly	Ala
			180					185					190		
Val	Phe	Ser	Leu	Leu	Phe	His	Leu	Gly	Thr	Arg	Glu	Arg	Arg	Arg	Pro
		195					200					205			
His	Ala	Glu	Glu	Pro	Gly	Glu	His	Thr	Pro	Leu	Leu	Ala	Pro	Ala	Thr
	210					215					220				
Ala	Gln	Pro	Leu	Leu	Leu	Trp	Lys	His	Trp	Leu	Arg	Glu	Pro	Ala	Phe
225					230					235					240
Tyr	Gln	Val	Gly	Ile	Leu	Tyr	Met	Thr	Thr	Arg	Leu	Ile	Val	Asn	Leu
				245					250					255	
Ser	Gln	Thr	Tyr	Met	Ala	Met	Tyr	Leu	Thr	Tyr	Ser	Leu	His	Leu	Pro
			260					265					270		
Lys	Lys	Phe	Ile	Ala	Thr	Ile	Pro	Leu	Val	Met	Tyr	Leu	Ser	Gly	Phe
		275					280					285			
Leu	Ser	Ser	Phe	Leu	Met	Lys	Pro	Ile	Asn	Lys	Cys	Ile	Gly	Arg	Asn
	290					295					300				
Met	Thr	Tyr	Phe	Ser	Gly	Leu	Leu	Val	Ile	Leu	Ala	Phe	Ala	Ala	Trp
305					310					315					320
Val	Ala	Leu	Ala	Glu	Gly	Leu	Gly	Val	Ala	Val	Tyr	Ala	Ala	Ala	Val
				325					330					335	
Leu	Leu	Gly	Ala	Gly	Cys	Ala	Thr	Ile	Leu	Val	Thr	Ser	Leu	Ala	Met
			340					345					350		
Thr	Ala	Asp	Leu	Ile	Gly	Pro	His	Thr	Asn	Ser	Gly	Ala	Phe	Val	Tyr
		355					360					365			
Gly	Ser	Met	Ser	Phe	Leu	Asp	Lys	Val	Ala	Asn	Gly	Leu	Ala	Val	Met
	370					375					380				
Ala	Ile	Gln	Ser	Leu	His	Pro	Cys	Pro	Ser	Glu	Leu	Cys	Cys	Arg	Ala
385					390					395					400
Cys	Val	Ser	Phe	Tyr	His	Trp	Ala	Met	Val	Ala	Val	Thr	Gly	Gly	Val
				405					410					415	
Gly	Val	Ala	Ala	Ala	Leu	Cys	Leu	Cys	Ser	Leu	Leu	Leu	Trp	Pro	Thr

Ser Glu Gly Val Ala Ala Pro Arg Arg Leu Arg Arg Ala Ala Asp His
 210 215 220

Asp Val Gly Ser Glu Leu Pro Pro Glu Gly Val Leu Gly Ala Leu Leu
 225 230 235 240

Arg Val Lys Arg Leu Glu Thr Pro Ala Pro Gln Val Pro Ala Arg Arg
 245 250 255

Leu Leu Pro Pro
 260

<210> 675
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 675
 Met His Leu Cys Ile Cys Ala Val Trp Val Leu Val Ala Leu Leu Arg
 1 5 10 15

Met His Gly Ala Ser Pro Ala Gln Thr Ser Gly Thr Arg Ser Gly Asn
 20 25 30

Gly Gly Cys Arg Arg His Gly Ala Gly Gln Gly Arg Gly Ala Ala Thr
 35 40 45

Gln Pro Leu Arg Pro Pro Arg Gly Thr Ala Ser Gly Gln Leu Met Ala
 50 55 60

Leu Leu Ser Ala Leu Leu Pro Arg Leu Ser Gly Ser Ser Thr Pro Met
 65 70 75 80

Met Ala His Gly Arg Pro Ala Pro Pro Gln Trp Ser Arg Val Ser
 85 90 95

<210> 676
 <211> 130
 <212> PRT
 <213> Homo sapiens

<400> 676
 Met Glu Thr Leu Gly Ala Leu Leu Val Leu Glu Phe Leu Leu Leu Ser
 1 5 10 15

Pro Val Glu Ala Gln Gln Ala Thr Glu His Arg Leu Lys Pro Trp Leu
 20 25 30

Val Gly Leu Ala Ala Val Val Gly Phe Leu Phe Ile Val Tyr Leu Val
 35 40 45

Leu Leu Ala Asn Arg Leu Trp Cys Ser Lys Ala Arg Ala Glu Asp Glu

50 55 60
 Glu Glu Thr Thr Phe Arg Met Glu Ser Asn Leu Tyr Gln Asp Gln Ser
 65 70 75 80
 Glu Asp Lys Arg Glu Lys Lys Glu Ala Lys Glu Lys Glu Glu Lys Arg
 85 90 95
 Lys Lys Glu Lys Lys Thr Ala Lys Glu Gly Glu Ser Asn Leu Gly Leu
 100 105 110
 Asp Leu Glu Glu Lys Glu Pro Gly Asp His Glu Arg Ala Lys Ser Thr
 115 120 125
 Val Met
 130

<210> 677
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 677
 Met Ser Leu Ile Trp Arg Asp Val Tyr Leu Tyr Gly Cys Gly Cys Ile
 1 5 10 15
 Cys His Gly Arg Cys Cys Ala Gly Phe Pro Gln His Ser Arg His Val
 20 25 30
 Trp Arg Thr Asn Ala Gly Leu Ile Leu Pro Gly Asn Arg Val Pro Phe
 35 40 45
 Cys Glu Leu Glu Gly Cys Thr Arg Arg Ser Ser Tyr Trp Asn His Leu
 50 55 60
 Val Ile Leu Gly Gly His Trp Gly Leu His Leu Pro Cys Thr Ser Leu
 65 70 75 80

<210> 678
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 678
 Met Phe Pro Trp Cys Val Cys Val Ile Ala Cys Ile Ser Ala Val Thr
 1 5 10 15
 Pro Leu Ile Gln Gly Phe Thr Phe Cys Ser Phe Ser Tyr Pro Gln Tyr
 20 25 30

Ser Thr Val Arg Tyr Phe Glu Arg Glu Thr Thr Leu Thr Leu Leu Leu
 35 40 45

Leu

<210> 679
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 679
 Met Asn Leu Ser Phe Leu Ser Phe Phe Leu Phe Phe Tyr Leu Leu Trp
 1 5 10 15

Ser Pro Ala Glu Ser Val Tyr Lys Lys Gly Met Val Lys Lys Asn Leu
 20 25 30

Ser His Ser Ile Val Glu Lys Ile Lys
 35 40

<210> 680
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 680
 Met Met Gly Leu Leu Glu Thr Gly Asn Val Leu Phe Trp Val Trp Val
 1 5 10 15

Val Val Thr Cys Val Tyr Ser Leu Tyr Ala Asn Ser Leu Asn Cys Trp
 20 25 30

Asp Met Asp Cys Ala Pro Phe Tyr Met Cys Val Met Leu Gln Gln Lys
 35 40 45

Cys Gln
 50

<210> 681
 <211> 318
 <212> PRT
 <213> Homo sapiens

<400> 681
 Met Ala Lys Arg Thr Phe Ser Asn Leu Glu Thr Phe Leu Ile Phe Leu
 1 5 10 15

Leu Val Met Met Ser Ala Ile Thr Val Ala Leu Leu Ser Leu Leu Phe
 20 25 30

Ile Thr Ser Gly Thr Ile Glu Asn His Lys Asp Leu Gly Gly His Phe
 35 40 45
 Phe Ser Thr Thr Gln Ser Pro Pro Ala Thr Gln Gly Ser Thr Ala Ala
 50 55 60
 Gln Arg Ser Thr Ala Thr Gln His Ser Thr Ala Thr Gln Ser Ser Thr
 65 70 75 80
 Ala Thr Gln Thr Ser Pro Val Pro Leu Thr Pro Glu Ser Pro Leu Phe
 85 90 95
 Gln Asn Phe Ser Gly Tyr His Ile Gly Val Gly Arg Ala Asp Cys Thr
 100 105 110
 Gly Gln Val Ala Asp Ile Asn Leu Met Gly Tyr Gly Lys Ser Gly Gln
 115 120 125
 Asn Ala Gln Gly Ile Leu Thr Arg Leu Tyr Ser Arg Ala Phe Ile Met
 130 135 140
 Ala Glu Pro Asp Gly Ser Asn Arg Thr Val Phe Val Ser Ile Asp Ile
 145 150 155 160
 Gly Met Val Ser Gln Arg Leu Arg Leu Glu Val Leu Asn Arg Leu Gln
 165 170 175
 Ser Lys Tyr Gly Ser Leu Tyr Arg Arg Asp Asn Val Ile Leu Ser Gly
 180 185 190
 Thr His Thr His Ser Gly Pro Ala Gly Tyr Phe Gln Tyr Thr Val Phe
 195 200 205
 Val Ile Ala Ser Glu Gly Phe Ser Asn Gln Thr Phe Gln His Met Val
 210 215 220
 Thr Gly Ile Leu Lys Ser Ile Asp Ile Pro His Thr Asn Met Lys Pro
 225 230 235 240
 Gly Lys Ile Phe Ile Asn Lys Gly Asn Val Asp Gly Val Gln Ile Asn
 245 250 255
 Arg Ser Pro Tyr Ser Tyr Leu Gln Asn Pro Gln Ser Glu Arg Ala Arg
 260 265 270
 Tyr Ser Ser Asn Thr Asp Lys Glu Met Ile Val Leu Lys Met Val Asp
 275 280 285
 Leu Asn Gly Asp Asp Leu Gly Leu Ile Ser Phe Ser Phe Ser Lys Ser
 290 295 300
 Ala Leu Gly Thr Tyr Tyr Glu Pro Arg Asn Thr Ser Leu Glu
 305 310 315

<210> 682

<211> 55
<212> PRT
<213> Homo sapiens

<400> 682
Met Pro Gly Gly Arg Asp Gly Leu Leu Tyr Leu Tyr His Gly Tyr Ser
1 5 10 15
Ala Leu Leu Leu Trp Pro Val Ala Phe Leu His Leu Leu Phe Leu Ile
20 25 30
Leu Leu Gly Met Cys Phe Ala Cys Cys Ile Pro Thr Ser Ser Ala Pro
35 40 45
Leu His Thr Pro Trp Leu Ala
50 55

<210> 683
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring amino acids

<400> 683
Met Arg Pro Leu Leu Leu Gly Gly Tyr Trp Val Leu Cys Leu Ser Val
1 5 10 15
Leu Gly His Ala Ala Leu Tyr His Phe Trp Leu Arg Glu Glu Gly ~~ys~~
20 25 30
Gly Pro Pro Gln Val Xaa Ser Val Leu Ala Leu Ala Leu Pro Ala Gly
35 40 45
Ser Cys Ala Pro Gly Leu Pro Phe Pro Gly Pro Leu Ile Pro Thr Gln
50 55 60
Leu Leu Phe Ala Leu Glu Trp Gly Thr Pro Thr Pro Leu Arg Asp His
65 70 75 80
Pro Pro His Ser Met His Ser Ala Pro Gln Asn Pro Pro Val Phe Leu
85 90 95
Gly Thr His Thr Cys Pro Pro Ser Trp Tyr Phe Arg Leu Ile Pro Gln
100 105 110
Ala

<210> 684

<211> 87
 <212> PRT
 <213> Homo sapiens

<400> 684
 Met Asp Leu Thr Val Glu Gly Phe Gln Ser Trp Met Trp Arg Gly Leu
 1 5 10 15
 Thr Phe Leu Leu Pro Phe Leu Phe Phe Gly His Phe Trp Gln Leu Phe
 20 25 30
 Asn Ala Leu Thr Leu Phe Asn Leu Ala Gln Asp Pro Gln Cys Lys Glu
 35 40 45
 Trp Gln Val Leu Met Cys Gly Phe Pro Phe Leu Leu Leu Phe Leu Gly
 50 55 60
 Asn Phe Phe Thr Thr Leu Arg Val Val His His Lys Phe His Ser Gln
 65 70 75 80
 Arg His Gly Ser Lys Lys Asp
 85

<210> 685
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 685
 Met Ala Leu Ser Leu Thr Leu Cys Phe Val Met Phe Trp Thr Pro Asn
 1 5 10 15
 Val Ser Glu Lys Ile Leu Ile Asp Ile Ile Gly Val Asp Phe Ala Phe
 20 25 30
 Ala Glu Leu Cys Val Val Pro Leu Arg Ile Phe Ser Phe Phe Pro Val
 35 40 45
 Pro Val Thr Val Arg Ala His Leu Thr Gly Trp Leu Met Thr Leu Lys
 50 55 60
 Lys Thr Phe Val Leu Ala Pro Ser Ser Val Leu Arg Ile Ile Val Leu
 65 70 75 80
 Ile Ala Ser Leu Val Val Leu Pro Tyr Leu Gly Val His Gly Ala Thr
 85 90 95
 Leu Gly Val Gly Ser Leu Leu Ala Gly Phe Val Gly Glu Ser Thr Met
 100 105 110
 Val Ala Ile Ala Ala Cys Tyr Val Tyr Arg Lys Gln Lys Lys Lys Met
 115 120 125
 Glu Asn Glu Ser Ala Thr Glu Gly Glu Asp Ser Ala Met Thr Asp Met
 130 135 140

Pro Pro Thr Glu Glu Val Thr Asp Ile Val Glu Met Arg Glu Glu Asn
 145 150 155 160

Glu

<210> 686
 <211> 348
 <212> PRT
 <213> Homo sapiens

<400> 686
 Met Asn Met Thr Gln Ala Arg Val Leu Val Ala Ala Val Val Gly Leu
 1 5 10 15
 Val Ala Val Leu Leu Tyr Ala Ser Ile His Lys Ile Glu Glu Gly His
 20 25 30
 Leu Ala Val Tyr Tyr Arg Gly Gly Ala Leu Leu Thr Ser Pro Ser Gly
 35 40 45
 Pro Gly Tyr His Ile Met Leu Pro Phe Ile Thr Thr Phe Arg Ser Val
 50 55 60
 Gln Thr Thr Leu Gln Thr Asp Glu Val Lys Asn Val Pro Cys Gly Thr
 65 70 75 80
 Ser Gly Gly Val Met Ile Tyr Ile Asp Arg Ile Glu Val Val Asn Met
 85 90 95
 Leu Ala Pro Tyr Ala Val Phe Asp Ile Val Arg Asn Tyr Thr Ala Asp
 100 105 110
 Tyr Asp Lys Thr Leu Ile Phe Asn Lys Ile His His Glu Leu Asn Gln
 115 120 125
 Phe Cys Ser Ala His Thr Leu Gln Glu Val Tyr Ile Glu Leu Phe Asp
 130 135 140
 Gln Ile Asp Glu Asn Leu Lys Gln Ala Leu Gln Lys Asp Leu Asn Leu
 145 150 155 160
 Met Ala Pro Gly Leu Thr Ile Gln Ala Val Arg Val Thr Lys Pro Lys
 165 170 175
 Ile Pro Glu Ala Ile Arg Arg Asn Phe Glu Leu Met Glu Ala Glu Lys
 180 185 190
 Thr Lys Leu Leu Ile Ala Ala Gln Lys Gln Lys Val Val Glu Lys Glu
 195 200 205
 Ala Glu Thr Glu Arg Lys Lys Ala Val Ile Glu Ala Glu Lys Ile Ala
 210 215 220

Gln Val Ala Lys Ile Arg Phe Gln Gln Lys Val Met Glu LysGlu Thr
 225 230 235 240
 Glu Lys Arg Ile Ser Glu Ile Glu Asp Ala Ala Phe Leu Ala Arg Glu
 245 250 255
 Lys Ala Lys Ala Asp Ala Glu Tyr Tyr Ala Ala His LysTyr Ala Thr
 260 265 270
 Ser Asn Lys His Lys Leu Thr Pro Glu Tyr Leu Glu Leu Lys Lys Tyr
 275 280 285
 Gln Ala Ile Ala Ser Asn Ser Lys Ile Tyr Phe Gly Ser Asn Ile Pro
 290 295 300
 Asn Met Phe Val Asp Ser Ser Cys Ala Leu Lys Tyr Ser Asp Ile Arg
 305 310 315 320
 Thr Gly Arg Glu Ser Ser Leu Pro Ser Lys Glu Ala Leu Glu Pro Ser
 325 330 335
 Gly Glu Asn Val Ile Gln Asn Lys Glu Ser Thr Gly
 340 345

<210> 687
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 687
 Met Arg Arg Leu Leu Leu Val Thr Ser LeuVal Val Val Leu Leu Trp
 1 5 10 15
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30
 Lys His Trp Pro Ser Glu Gln Asp Pro Glu LysAla Trp Gly Ala Arg
 35 40 45
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60
 Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln
 65 70 75 80
 Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu
 85 90 95
 Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp SerLeu
 100 105 110
 Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu
 115 120 125
 Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln

130 135 140
 Asp His Ile Tyr His Pro Gln
 145 150

<210> 688
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 688
 Met Gln Val Ala Cys Val Met Lys Val Ser Ala Gln Trp Val Cys Phe
 1 5 10 15
 Phe Val Val Phe Ser Pro Leu Cys Ser Ser Val Lys Cys Ala Ser Ser
 20 25 30
 Gly Gln Asn Arg Gly Arg Gly Asp Gln
 35 40

<210> 689
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 689
 Met Pro Leu Cys Gly Leu Tyr Cys Leu Arg Ile Leu Met Phe Pro Leu
 1 5 10 15
 Arg Ser Ala Asn Ser Val Pro Leu Gln Cys Leu Pro Pro Ser Ser Leu
 20 25 30
 Ala Asn Lys Asp Ser His Phe Arg Ala Pro Arg Lys
 35 40

<210> 690
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 690
 Met Thr Pro Leu Leu Thr Leu Ile Leu Val Val Leu Met Gly Leu Pro
 1 5 10 15
 Leu Ala Gln Ala Leu Asp Cys His Val Cys Ala Tyr Asn Gly Asp Asn
 20 25 30
 Cys Phe Asn Pro Met Arg Cys Pro Ala Met Val Ala Tyr Cys Met Thr
 35 40 45
 Thr Arg Thr Tyr Tyr Thr Pro Thr Arg Met Lys Val Ser Lys Ser Cys

50 55 60
 Val Pro Arg Cys Phe Glu Thr Val Tyr Asp Gly Tyr Ser Lys His Ala
 65 70 75 80
 Ser Thr Thr Ser Cys Cys Gln Tyr Asp Leu Cys Asn Gly Thr Gly Leu
 85 90 95
 Ala Thr Pro Ala Thr Leu Ala Leu Ala Pro Ile Leu Leu Ala Thr Leu
 100 105 110
 Trp Gly Leu Leu
 115

<210> 691
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 691
 Met Pro Gly Ile Leu Ala Gly Ile Pro Val Lys Asp Leu Cys Leu Ser
 1 5 10 15
 Leu Leu Gln Gly Phe Arg Leu Leu Leu Leu Cys Val Cys Pro Gly Trp
 20 25 30
 Leu Ser Gly Trp Met Gly Gly Gln Lys Gly Ser Pro Arg Ile Val Asp
 35 40 45
 Ile Gly
 50

<210> 692
 <211> 206
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (143)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 692
 Met Ala Ser His Gly Leu Cys Pro Cys Leu Leu Met Gly ThrGly Trp
 1 5 10 15
 Gly Leu Trp Thr Leu Leu Pro Asp Leu Glu Val Met Ala Gly Lys Gly
 20 25 30
 Arg Met Pro Phe Ala Gly Ile Ser Val Thr Ser Gly Phe Leu ArgSer
 35 40 45
 Leu Lys Arg Ala Pro Leu Pro His Thr Gly Ser Pro Asp Pro Arg Pro

50	55	60
Ser Gly Ile Trp Ser Gly Val Arg Thr Thr Ser Glu Glu Ala Gly Ala		
65	70	75 80
Thr Ser Thr Gln Ile Ser Thr Ala Ala Pro Arg Phe His Ser Arg Arg		
	85	90 95
Lys Gly Pro Lys Arg Asn Leu Ala Pro Gln Leu Arg Val Leu Val His		
	100	105 110
Arg Thr Val Pro Pro Gly Gln Leu Val Tyr Ala Pro Gln Thr Val Asp		
	115	120 125
Ser Leu Arg Gly Thr Leu Leu Arg Pro Pro Ala Trp Leu Leu Xaa Gln		
	130	135 140
Val Pro Cys Phe Tyr Ser Gly Gln Pro Leu Leu Val Ser Ala Ser Val		
	145	150 155 160
Leu Cys Arg Asp Leu Met Gln Phe Leu Phe Leu Leu Lys Ser Tyr Leu		
	165	170 175
Leu Pro Phe Leu Glu Val Cys Arg Ile Gly Trp Glu Gln Ile Gln Arg		
	180	185 190
Ile Leu Gly Ala Gly Leu Trp Arg Gln Lys Glu Gly Asn Gly		
	195	200 205

<210> 693

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring amino acids

<400> 693

Met Ala Val Val Leu Ser Xaa Lys Xaa His Arg Gly Xaa Tyr Cys Gly
 1 5 10 15
 Arg Thr Ser Leu Leu Leu Ser Leu Leu Ser Cys Leu Leu Leu Leu Leu
 20 25 30
 Leu Leu Leu Leu Leu Leu Trp Ser Leu Ser Glu Ile Lys Thr Leu
 35 40 45
 Lys Leu Ile Cys Ile Leu Ser Ala Arg Asp Ala Asp Gly Ser Arg Ala
 50 55 60
 Lys Ser His Gly Phe Gln Ile Arg Tyr Ser Ala His Ser Phe Gln Gly
 65 70 75 80
 His Arg Phe Leu Lys Gly Pro Gly Phe Glu Glu Met Ala Asn Xaa Glu
 85 90 95
 Pro Ser Glu Asn Leu Ile Trp Lys Thr Cys Met
 100 105

<210> 694
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 694
 Met Leu Pro Ser Asn Trp Ser Gly Thr Trp Ala Leu Ile Gln Leu Ser
 1 5 10 15
 Ile Pro Phe Thr Leu Ala Phe His Gln ProAsn Lys Asn Gln Leu Thr
 20 25 30
 Gln Lys Lys Arg Lys Ala Pro Gln Gly Ser Phe Asp Pro Asp Ile Tyr
 35 40 45
 Ile Asp Ala Ile Gly Val Pro
 50 55

<210> 695
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 695
 Met Ser Arg Phe Ile Leu Asn His Leu Val Leu Ala Ile Pro Leu Arg
 1 5 10 15
 Val Leu Val Val Leu Trp Ala Phe Val Leu Gly Leu Ser Arg Val Met
 20 25 30
 Leu Gly Arg His Asn Val Thr Asp Val Ala Phe Gly Phe Phe Leu Gly
 35 40 45

Tyr Met Gln Tyr Ser Ile Val Asp Tyr Cys Trp Leu Ser Pro His Asn
50 55 60

Ala Pro Val Leu Phe Leu Leu Trp Ser Gln Arg
65 70 75

<210> 696
<211> 97
<212> PRT
<213> Homo sapiens

<400> 696
Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu
1 5 10 15
Leu Leu Leu Phe Thr Asp Thr Ser Asn Ser His Cys Leu Pro Pro Tyr
20 25 30
Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys
35 40 45
Ile Ser Ala Ala Tyr Val Leu Ala Thr Pro Pro Glu Pro Ser Phe Ile
50 55 60
Leu Val Gly Phe Ser Glu Ala Gly Phe Ala Gln Val Ala Cys Phe Leu
65 70 75 80
Lys Tyr Leu Phe Cys Arg Pro Phe Thr Arg His Gly Tyr Phe Tyr Ser
85 90 95

Gly

<210> 697
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring amino acids

<400> 697
Met Gly Phe Phe Leu Val Leu Val Met Glu Gln Ile Thr Leu Ala Tyr
1 5 10 15
Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu Thr Arg Ala Leu Leu
20 25 30
Gly Thr Val Asn Gly Gly Pro Gln His Trp His Asp Gly Pro Gly Val
35 40 45

Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser Ala Leu Arg Ala Cys
 50 55 60
 Val Leu Val Phe Ser Leu Ala Leu His Ser Val Phe Glu Gly Leu Ala
 65 70 75 80
 Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met Glu Leu Cys Leu Ala
 85 90 95
 Leu Leu Leu His Lys Gly Ile Leu Ala Val Ser Leu Ser Leu Arg Leu
 100 105 110
 Leu Gln Ser His Leu Arg Ala Gln Val Val Ala Gly Cys Gly Ile Leu
 115 120 125
 Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu Gly Ala Ala Leu Ala
 130 135 140
 Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln Ser Val Leu Glu Gly
 145 150 155 160
 Met Ala Ala Gly Thr Phe Xaa Tyr Ile Thr Phe Leu Glu Ile Leu Leu
 165 170 175
 Phe His Pro Lys Phe Lys Gly Val Ser Arg Arg
 180 185

<210> 698
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 698
 Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly
 1 5 10 15
 Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr Ser Leu Ser Asp Leu
 20 25 30
 Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Glu Asp Thr
 35 40 45
 Ser Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met Ser Lys
 50 55 60
 Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His
 65 70 75 80
 Ser Gln Gln Pro Cys Pro Gln Glu Leu Gln Thr Ala Arg Lys Ser Lys
 85 90 95
 Ser Cys Thr Ala Trp Pro Thr Ser Gln Cys Thr Arg Ser Ser Arg Arg
 100 105 110

Cys

<210> 699
<211> 140
<212> PRT
<213> Homo sapiens

<220>'
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring amino acids

<400> 699
Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val
1 5 10 15
Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val
20 25 30
Trp Ser Arg Xaa Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu
35 40 45
Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu
50 55 60
Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly
65 70 75 80
His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly
85 90 95
Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr
100 105 110
Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly
115 120 125
Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly
130 135 140

<210> 700
<211> 278
<212> PRT
<213> Homo sapiens

<400> 700
Met Gln Trp Leu Arg Val Arg Glu Ser Pro Gly Glu Ala Thr Gly His
1 5 10 15
Arg Val Thr Met Gly Thr Ala Ala Leu Gly Pro Val Trp Ala Ala Leu
20 25 30

Leu Leu Phe Leu Leu Met Cys Glu Ile Pro Met Val Glu Leu Thr Phe
 35 40 45
 Asp Arg Ala Val Ala Ser Asp Cys Gln Arg Cys Cys Asp Ser Glu Asp
 50 55 60
 Pro Leu Asp Pro Ala His Val Ser Ser Ala Ser Ser Ser Gly Arg Pro
 65 70 75 80
 His Ala Leu Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile Leu Lys
 85 90 95
 Gly Asp Lys Gly Asp Pro Gly Pro Met Gly Leu Pro Gly Tyr Met Gly
 100 105 110
 Arg Glu Gly Pro Gln Gly Glu Pro Gly Pro Gln Gly Ser Lys Gly Asp
 115 120 125
 Lys Gly Glu Met Gly Ser Pro Gly Ala Pro Cys Gln Lys Arg Phe Phe
 130 135 140
 Ala Phe Ser Val Gly Arg Lys Thr Ala Leu His Ser Gly Glu Asp Phe
 145 150 155 160
 Gln Thr Leu Leu Phe Glu Arg Val Phe Val Asn Leu Asp Gly Cys Phe
 165 170 175
 Asp Met Ala Thr Gly Gln Phe Ala Ala Pro Leu Arg Gly Ile Tyr Phe
 180 185 190
 Phe Ser Leu Asn Val His Ser Trp Asn Tyr Lys Glu Thr Tyr Val His
 195 200 205
 Ile Met His Asn Gln Lys Glu Ala Val Ile Leu Tyr Ala Gln Pro Ser
 210 215 220
 Glu Arg Ser Ile Met Gln Ser Gln Ser Val Met Leu Asp Leu Ala Tyr
 225 230 235 240
 Gly Asp Arg Val Trp Val Arg Leu Phe Lys Arg Gln Arg Glu Asn Ala
 245 250 255
 Ile Tyr Ser Asn Asp Phe Asp Thr Tyr Ile Thr Phe Ser Gly His Leu
 260 265 270
 Ile Lys Ala Glu Asp Asp
 275

<210> 701

<211> 354

<212> PRT

<213> Homo sapiens

<400> 701

Met Trp Arg Leu Trp Pro Gly Ser Pro Leu Val Pro Leu Ser Trp Leu


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<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring amino acids

<400> 703
Met Ala Ile Ser Ile Pro Asn Arg Ile Phe Pro Ile Thr Ala Leu Thr
  1           5           10           15

Leu Leu Ala Leu Val Tyr Ser Leu Val Leu Leu Leu Pro Phe Tyr Asn
  20           25           30

Cys Thr Glu Xaa Thr Lys Tyr Arg Arg Phe Pro Asp Trp Leu Asp His
  35           40           45

Trp Met Leu Cys Arg Lys Gln Leu Gly Leu Val Ala Leu Gly Phe Ala
  50           55           60

Phe Leu Xaa Val Leu Xaa Xaa Leu Val Ile Pro Ile Arg Tyr Tyr Val
  65           70           75           80

Arg Xaa Arg Leu Gly Asn Leu Thr Val Thr Gln Xaa Ile Leu Lys Lys
  85           90           95

Glu Asn Pro Phe Ser Thr Ser Ser Ala Trp Leu Ser Asp Ser Tyr Val
  100          105          110

Ala Leu Gly Ile Leu Gly Phe Phe Leu Phe Val Leu Leu Gly Ile Thr
  115          120          125

Ser Leu Pro Ser Val Ser Asn Ala Val Asn Trp Arg Glu Phe Arg Phe
  130          135          140

Val Gln Ser Lys Leu Gly Tyr Leu Thr Leu Ile Leu Cys Thr Ala His
  145          150          155          160

Thr Leu Val Tyr Gly Gly Lys Arg Phe Leu Ser Pro Ser Asn Leu Arg
  165          170          175

Trp Tyr Leu Pro Ala Ala Tyr Val Leu Gly Leu Ile Ile Pro Cys Thr
  180          185          190

Val Leu Val Ile Lys Phe Val Leu Ile Met Pro Cys Val Asp Asn Thr
  195          200          205

Leu Thr Arg Ile Arg Arg Ala Gly Lys Gly Thr Gln Asn Thr Arg Lys
  210          215          220

Ser Ile Glu Trp Lys Ile Asn Ile
  225          230

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<210> 704
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 704
 Met Thr Leu Ser Leu Gln Leu Ala Glu Leu Val His Phe Val Cys Ala
 1 5 10 15
 Phe Gln Ser Gln Trp Thr Gly Val Tyr Pro Met Met Pro Pro Leu Lys
 20 25 30
 Pro Thr Glu Pro Leu Cys Phe Ala Cys Val Pro Cys Arg Val
 35 40 45

<210> 705
 <211> 152
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (93)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring amino acids

<400> 705

Met Asp His Ser Pro Thr Thr Gly Val Val Thr Val Ile Val Ile Leu
1 5 10 15

Ile Ala Ile Ala Ala Leu Gly Ala Phe Asp Pro Gly Leu Leu Val Leu
20 25 30

Pro Ala Ala Ala Ala His Gln Pro Val Arg Gly Arg Gly Glu His Arg
35 40 45

Gly Gly Trp Gly Asp Gln Gly Thr Leu Pro Ala Gly Ala Val Phe Gly
50 55 60

Gln Xaa Thr Val Arg Gly Glu Lys Gly Gln Ala Asp Xaa Ser Gln Thr
65 70 75 80

Xaa Arg Lys Xaa Thr Xaa Xaa Pro Gly Cys Lys Gly Xaa Leu Val Pro
85 90 95

Val Cys Lys Pro Ala Lys Xaa Gly Leu Gly Gly Ala Lys Xaa Ile Arg
100 105 110

Met Arg Cys Cys Leu Arg Gly Arg Ala Asp Thr Cys Trp His Gly Leu
115 120 125

Cys Gly Phe Arg Pro Ser His Ala Leu Met Pro Gly Asp Leu Ala Val
130 135 140

Leu Gly Phe Pro Ser Ala Ser Arg
145 150

<210> 706

<211> 88

<212> PRT

<213> Homo sapiens

<400> 706

Met Val Ala Gly Phe Val Phe Tyr Leu Gly Val Phe Val Val Cys His
1 5 10 15

Gln Leu Ser Ser Ser Leu Asn Ala Thr Tyr Arg Ser Leu Val AlaArg
20 25 30

Glu Lys Val Phe Trp Asp Leu Ala Ala Thr Arg Ala Val Phe Gly Val
 35 40 45
 Gln Ser Thr Ala Ala Ala Val Gly Ser Ala Gly Gly Pro Cys Ala Ala
 50 55 60
 Cys Arg Gln Gly Ala Trp Pro Ala Glu Leu Val Leu Val Ser His His
 65 70 75 80
 Asp Ser Asn Gly Ile Leu Leu Leu
 85

<210> 707
 <211> 340
 <212> PRT
 <213> Homo sapiens

<400> 707
 Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1 5 10 15
 Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
 20 25 30
 Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
 35 40 45
 Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
 50 55 60
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
 65 70 75 80
 Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
 85 90 95
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
 100 105 110
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
 115 120 125
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
 130 135 140
 Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu
 145 150 155 160
 Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu
 165 170 175
 Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln
 180 185 190
 Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg